

CONTENTS

1	Introduction.....	1
1.1	Summarization	1
1.2	System Requirements	3
1.2.1	TD3004-TD3216 Series Cards System Requirements	3
1.2.2	TD3316 System Requirements	3
1.2.3	TD3101、3104 USB Cards System Requirements.....	4
1.2.4	TD4104 Card System Requirements.....	4
1.2.5	TD4116 Card System Requirements.....	5
1.3	System Specifications.....	6
2	Hardware Installation.....	7
2.1	Video Capture Card Hardware	7
2.1.1	TD3004 Card Hardware	7
2.1.2	TD3008 Card Hardware	8
2.1.3	TD3016 Card Hardware	9
2.1.4	TD3116 Card Hardware	10
2.1.5	TD3216 Card Hardware.....	11
2.1.6	TD3316 Card Hardware.....	12
2.1.7	TD3101 USB Card Hardware.....	14
2.1.8	TD3104 USB Card Hardware.....	14
2.1.9	TD4104 Card Hardware.....	15
2.1.10	TD4116 Card Hardware	17
2.1.11	Alarm Board Hardware.....	19
2.1.12	Connect Audio Signal	19
2.2	Install Video Capture Card Driver	20
3	Main Display Interface	25
3.1	Display Control Panel.....	26
3.1.1	Display Control Panel	26
3.1.2	Display Modes.....	26
3.1.3	Flip Pages	26
3.1.4	Auto Dwell Display Mode	26
3.1.5	Quick Switch	26
3.2	Login.....	27
3.3	Record.....	27
3.3.1	Record Modes	27
3.3.2	Record Setup	28
3.3.3	Record Status Panel.....	29
3.3.4	Manual Record Mode	30
3.3.5	Sensor Alarm Record Mode.....	30
3.3.6	Motion Detection Record Mode.....	30
3.3.7	Schedule Record	30
3.3.8	Recycling Record	31
4	System Setup	32
4.1	Basic Configuration	33
4.2	Video Configuration	35

4.3 Motion Detection Configuration	36
4.3.1 TD3316 Card Motion Detection Configuration	37
4.3.2 Set Motion Detection Area	37
4.3.3 Set Motion Detection Sensitivity	38
4.4 Schedule Configuration	38
4.5 Motion Detection Alarm Configuration	39
4.5.1 Alarm Triggering Conditions Configuration	39
4.5.2 Alarm Record	41
4.5.3 Alarm Output	42
4.5.4 Auto Mail Function	43
4.6 E-map Configuration	45
4.6.1 Edit Map	45
4.6.2 View Map	46
4.7 P.T.Z Control Configuration	47
4.7.1 Protocol Setup	47
4.7.2 Serial Ports Setup	48
4.8 Users Configuration	49
4.8.1 Change User rights	50
4.8.2 Add User	51
4.8.3 Delete User	51
5 P.T.Z Control	52
6 Record Search & Playing Back	56
6.1 Record Search	57
6.2 Playing Back and Control	58
6.3 Other Functions	62
6.3.1 Record File Backup	62
6.3.2 Delete Record Files	63
6.3.3 Capture Pictures	63
6.3.4 Image Zoom in/out	66
7 Remote Surveillance & Playback	69
7.1 Remote Live Surveillance	69
7.1.1 Remote Surveillance Server Configuration	69
7.1.2 Remote Surveillance Client-side Setup	70
7.2 Remote Playback	77
7.2.1 Remote Playback Server Configuration	77
7.2.2 Remote Playback Client-side Setup	78
7.2.3 Remote Playback Configuration and Control	82
7.3 Mobile Surveillance	85
7.3.1 Introduction to Mobile Surveillance	85
7.3.2 Client Configuration of Windows Mobile	86
7.3.3 Client Configuration of Symbian 60	88
Appendix1 Differences among TD Series Card	93
Appendix2 Frequently Asked Questions	94
Appendix 2.1 Installation	94
Appendix 2.1.1 Cannot Install the SuperDVR Driver	94
Appendix 2.1.2 Why cannot run SuperDVR at the windows 2003 operate system?	94
Appendix 2.1.3 'Unspecified error' in the end of installation	94
Appendix 2.1.4 Can't find TD series Devices in Device Manager	95
Appendix 2.2 How to Use SuperDVR	95
Appendix 2.2.1 Meanings of the indicator lights	95

Appendix 2.2.2 How does the different record mode work?	95
Appendix 2.2.3 How to set recycling record mode on the system?	95
Appendix 2.2.4 How to set auto reboot function?	96
Appendix 2.2.5 How to quickly use the schedule record function?	96
Appendix 2.2.6 What are the byte rates for different image qualities from highest to normal?	96
Appendix 2.2.7 The frame rate seems to be lower than what I set?	96
Appendix 2.2.8 Why I can't select more channels to backup?	96
Appendix 2.2.9 When should I select manual Gain Control?	96
Appendix 2.3 How to Use Network Function	97
Appendix 2.3.1 How to monitor on the client-side?	97
Appendix 2.3.2 Why I can't download the client-side software?	97
Appendix 2.3.3 Why can't the server be configured at the client-side?	97
Appendix 2.3.4 Why I can't see the images?	97
Appendix 2.3.5 What should I do if the Internet speed is quite slow?	97
Appendix 2.3.6 Why I can't start WebCam server or RPB server?	98
Appendix 2.4 Other Questions	98
Appendix 2.4.1 Why computer display doesn't work, and why I can't access window system?	98
Appendix 2.4.2 Why I can't find the recorded files?	98
Appendix 2.4.3 Why the screens display is unstable with dithering and water-wave images?	98
Appendix 2.4.4 Why does it delay to play back, and it's slow to close and open the driver?... ..	98
Appendix 2.4.5 Why I can't play back?	99
Appendix 2.4.6 Why do I see some gray blocks on time progress bar area when play back?	99
Appendix 2.4.7 Why could I see some old record sections that didn't be covered when playing back?	99
Appendix 2.4.8 Precautions on changing system time	99
Appendix 2.4.9 If system time must be changed, please do following preparations first	100
Appendix 2.4.10 How to use REPAIRDB to repair SuperDVR database?	100
Appendix 2.4.11 How to set power options of Microsoft VISTA system?	100
Appendix3 Quick Start for Using	101
Appendix 3.1 Requirements	101
Appendix 3.2 Installation Instruction	101
Appendix 3.3 Troubleshooting	102
Appendix3.3.1 When opening the SuperDVR program, it says ' Can't find card '	102
Appendix 3.3.2 How to setup the web client to monitor from Internet?	102
Appendix4 Function Tree	104
Appendix 4.1 SuperDVR Function Tree	104
Appendix 4.2 System Configuration Tree	105
Appendix 4.3 WebCam Function Tree	106
Appendix 4.4 Remote Playback Function Tree	107

FIGURES

Figure2-1	TD3004 Video Capture Card.....	7
Figure2-2	TD3008 Video Capture Card.....	8
Figure2-3	Pins Definitions of TD3008 Video Capture Card.....	8
Figure2-4	TD3016 Video Capture Card Circuit Link for Watchdog Function.....	9
Figure2-5	TD3016 Video Capture Card Alarm Port	9
Figure2-6	TD3116 Video Capture Card.....	10
Figure2-7	Reset Pins Definitions of TD3116 Video Capture Card	10
Figure2-8	Pins Definitions of TD3116 Video Capture Card	11
Figure2-9	TD3216 Video Capture Card.....	11
Figure2-10	Pins Definitions of TD3216 Video Capture Card	12
Figure2-11	TD3316 Video Capture Card.....	12
Figure2-12	Audio Connector and Pins Definition.....	13
Figure2-13	Video Pins Definition	13
Figure2-14	TD3101 USB Video Capture Card	14
Figure2-15	TD3104 USB Video Capture Card	14
Figure2-16	TD4104 Video Capture Card.....	15
Figure2-17	Definition of Audio Connector's Pins	15
Figure2-18	TD4104 Video Capture Card.....	16
Figure2-19	Definition of Audio and Video Connector's Pins.....	16
Figure2-20	Multi-Card Connection.....	17
Figure2-21	TD4116 Video Capture Card.....	17
Figure2-22	Audio Connector and Pins Definition.....	18
Figure2-23	Video Pins Definition	18
Figure2-24	Alarm Board	19
Figure2-25	Pins Definition of Alarm Board	19
Figure2-26	TD Series Video Capture Card Installation Interface	20
Figure2-27	Welcome Page	21
Figure2-28	Select Video Format	21
Figure2-29	Rate of Progress of Driver Installation.....	22
Figure2-30	Select Installation Folder	22
Figure2-31	Register Application.....	23
Figure2-32	Driver and Application Installation Finished	23
Figure2-33	Shortcut of SuperDVR	24
Figure2-34	Install the Software on VISTA	24
Figure3-1	SuperDVR Main Display Interface.....	25
Figure3-2	Display Control Panel.....	26
Figure3-3	Display Modes Panel.....	26
Figure3-4	Main Interface	27
Figure3-5	Record Configuration Panel.....	28
Figure3-6	Record Status Panel & Alarm Output Status Panel.....	29
Figure4-1	Basic Configuration	32
Figure4-2	Caption and General Configuration.....	33
Figure4-3	Record Data Storage Precept	34
Figure4-4	Computer System Reboot Setup	34
Figure4-5	Video Configuration	35
Figure4-6	Motion Detection Configuration.....	36
Figure4-7	TD3316 Card Configuration Page	37
Figure4-8	Schedule Configuration	38
Figure4-9	Edit Schedule	39
Figure4-10	Local Alarm Triggering Configuration	39

Figure4-11	Alarm Output Terminal in LAN.....	40
Figure4-12	Add Alarm Output Terminal in LAN.....	40
Figure4-13	List of Alarm Output LAN Terminals	41
Figure4-14	Alarm Trigger Method Configuration	41
Figure4-15	Alarm Output Configuration	42
Figure4-16	AutoMail Setup Interface	43
Figure4-17	Auto Mail Setup	44
Figure4-18	Attachment Setup	44
Figure4-19	E-Map Edit	45
Figure4-20	View Camera.....	46
Figure4-21	PTZ Configuration Panel	47
Figure4-22	P.T.Z Protocol Setup	48
Figure4-23	P.T.Z Serial Port Setup.....	48
Figure4-24	User configuration	50
Figure4-25	User Password and Rights Edit	50
Figure4-26	Add User.....	51
Figure4-27	Confirm Delete User	51
Figure5-1	P.T.Z Control Interface	52
Figure5-2	P.T.Z Control Function Buttons Panel.....	53
Figure5-3	Speed Adjustment	53
Figure5-4	Preset and Group Select	54
Figure5-5	Preset	55
Figure5-6	Group Configuration	55
Figure6-1	Search and playing Back Interface.....	56
Figure6-2	Record Search Area	57
Figure6-3	Playing Back and Control	58
Figure6-4	Play Speed Controller.....	59
Figure6-5	Record Files Browser	59
Figure6-6	Multiple Channels Playing Back Control.....	60
Figure6-7	Channel Configuration Dialog for Single Channel Playing Back Mode	60
Figure6-8	Channel Configuration Dialog for 4-channel Playing Back Mode	60
Figure6-9	Channel Configuration Dialog for 9-channel Playing Back Mode	61
Figure6-10	Channel Configuration Dialog for 16-channel Playing Back Mode	61
Figure6-11	Recorded Files Backup.....	62
Figure6-12	Delete Recorded Files	63
Figure6-13	Color Control Panel	64
Figure6-14	Capture Multiple Images in Sequence.....	64
Figure6-15	Print Setup	65
Figure6-16	Print Preview	65
Figure6-17	Example: original size.....	66
Figure6-18	Example: zoomed out.....	67
Figure6-19	Example: zoomed in	68
Figure7-1	WebCam Server Configuration	69
Figure7-2	Remote Surveillance and Playback Services Selection	70
Figure7-3	Inquiry for Installing WebCam Downloading Component	71
Figure7-4	WebCam Client-side Driver Initializing	72
Figure7-5	WebCam Installation.....	73
Figure7-6	Default Install Path	73
Figure7-7	Register Program Folder Name	74
Figure7-8	Installation Success.....	75
Figure7-9	WebCam Main Interface	76
Figure7-10	Login WebCam.....	76
Figure7-11	WebCam Surveillance State	77
Figure7-12	Remote Playback Service Configuration	77
Figure7-13	Remote Playback Service Activated.....	78
Figure7-14	Remote Surveillance and Playback Services Selection	78

Figure7-15	Installing Remote Playback Program	79
Figure7-16	Default Install Path	80
Figure7-17	Register Program Folder Name	80
Figure7-18	Playback Program Installation Process Rate.....	81
Figure7-19	Installation Success.....	82
Figure7-20	Remote Playback Client-side Main Interface.....	82
Figure7-21	Client-side Configuration	83
Figure7-22	Login Remote Playback System	83
Figure7-23	Remote Playback Main Interface	84
Figure7-24	Select Date/Time Period for Playback.....	84
Figure7-25	Time Control Lever	85
Figure7-26	Play Speed Control Module	85
Figure7-27	Connected to Server.....	86
Figure7-28	Download Dialog Box	86
Figure7-29	Download Status Information	87
Figure7-30	Main Layout of PCam.....	87
Figure7-31	Log on System Successfully	88
Figure7-32	Selecting Channel	88
Figure7-33	Open Web Browser	89
Figure7-34	Build a Bookmark	89
Figure7-35	Connect to Server	89
Figure7-36	Confirmation Information Window	90
Figure7-37	Installing Configuration Information.....	90
Figure7-38	Scam Shortcut icon in System Menu.....	90
Figure7-39	Main Layout of Scam.....	91
Figure7-40	Main Menu of Scam.....	91
Figure7-41	Configure Login Information.....	91
Figure7-42	Connecting to Server.....	92
Figure7-43	Log in Successfully.....	92

TABELS

Table1-1 TD3004~TD3216 Series Cards System Requirements..... 3

Table1-2 TD3316 System Requirements 3

Table1-3 TD3101、 3104 System Requirements 4

Table1-4 TD4104 System Requirements 4

Table1-5 TD4116 System Requirements 5

Table1-6 Motherboards and VGA Cards Support XP OS 6

Table1-7 Motherboards and VGA Cards Support VISTA OS 6

Table2-1 TD3004 Card Pins 8

Table2-2 Pins Definitions of TD3016 Card 10

Table7-1 Mobile Phone of Supporting Mobile Surveillance..... 86

1 Introduction

1.1 Summarization

Thank you for choosing our digital video capture cards.

1Channel, 4 Channel, 8 Channel and 16 Channel cards adopt MPEG4 compression format, and enable maximum 16 channels real-time or none real-time surveillance. Our cards are mature and cost-effective products that should be your ideal choices. They enable synchronous audio and video compression and transmission, with their powerful compression rate and network transmission function. They are widely used in banks, intelligent communities, traffic management units, medical systems, educational systems, armed forces and so on.

This manual is suitable for SuperDVR 4.3, which supports TD3004, TD3008, TD3016, TD3116, TD3216, TD3316, TD4104, TD3101, and TD3104 cards.

In this manual, you will learn how to install the hardware and driver (software), and how to setup the systems of this range of products. Please make sure your operations with the products are strictly in accordance with the manual, so as to keep the stability of the digital surveillance systems.

The following are standard functions of the products:

- **Schedule record mode**
Users can choose any term in a day to record and set up record modes, i.e. sensor alarm record, motion detection record, manual record, Schedule Record.
- **Motion detection mode**
Motion detection areas are adjustable and maximum 16 areas for each channel. Users can also set motion detection sensitivity for each channel. The system begins to record only when motion of the detected object happens, and it will stop recording after a certain period, this function is adjustable by users.
- **Sensor alarm record mode**

With extra alarm board, the system enables alarm input and output.

- Recycling record mode
Users can set recording storage sequence for HDD partitions. The recording storage will automatically swap to the next partition when it is full. If all the partitions are full and recycling record mode is enabled, the former recorded data will be covered by new data. Users can also set HDD minimum storage alarm. Then once the present storage space is less than the minimum storage and recycling record mode is not enabled, the record will automatically stop.
- P.T.Z control function
Support a number of decoders. Users can control multiple speed domes and integrative cameras, including pan, tilt, zoom, focus and iris adjustment for P.T.Z devices. Support preset point and auto scout.
- Users management
Different users have different rights, user names and passwords, so as to ensure system security.
- Multi-channel display
Support different multi-channel display modes, full screen display and auto dwell display.
- Watch dog function
The 16 Channels card has watchdog function. In case SuperDVR driver or windows system is frozen, the watchdog will restart the computer and login SuperDVR system again automatically.
- One PC support 1 to 4 cards of the same model, the maximum frame rate can be 200 fps and 16 channels at most.
- Support 320x240 / 640x480 (NTSC), 352x288 / 704x576(PAL) standard resolutions.
- Image color adjustable for each channel, including contrast, lightness, hue and saturation.
- MPEG4 compression format, greatly reduce HDD usage
- Powerful video playing back functions, including playing back, pause, stop, fast-forward, single-frame play and image capture.
- Support advanced search mode. Users can search by date/time, camera, record mode, and random combination of the three methods.
- Support recorded files backup, delete by date/time, camera.
- Convenient to extend system functions by software upgrade.
- Supply multiple languages, including Chinese (Traditional), English, German, Spanish, Portuguese and other customized languages.
- CPU and storage resources saving by advanced technology
- Remote Surveillance and P.T.Z control through LAN, Intranet, and Internet.
- Support alarm pre-record.
- Support buzzer, email alarm out.

- Can greatly decrease fragmented files while using NTFS partition.
- User-friendly graphical user interface.

1.2 System Requirements

Our TD series video card support running on Windows VISTA OS. And the computer which connected the TD series video card required that motherboard and VGA card could support Windows VISTA OS.

1.2.1 TD3004~TD3216 Series Cards System Requirements

Card	TD3004, TD3008, TD3016, TD3116, TD3216
PC Module	
CPU	Intel PIII processor, minimum 800MHz
Motherboard	Intel 815/845/865/915 series
HDD	80G minimum
RAM	256M minimum
VGA	GeForce2 , GeForce4 , FX5200 , ATI Rage128
OS	Windows2000 /XP /VISTA
DirectX	9.0

Table1-1 TD3004~TD3216 Series Cards System Requirements

NOTICE

Notice motherboards listed below which has passed the test can work well with TD3004~TD3216:

- GIGA: GA-8IRXI (Intel 845D)
- GA-8IE2004 (Intel 845E)
- GA-6OXT (Intel 815EP)
- GA-8PE800 (Intel 845PE)
- GA-8IPE1000-G (Intel 865PE)
- ASUS: P4S8X (Sis 648)
- TUSL2-C (Intel 815EP)
- P4P800 (Intel 865PE)
- MSI: MS-6566E (Intel 845E)
- Intel845DDA+ (Intel 845E)

1.2.2 TD3316 System Requirements

Card	TD3316
PC Module	
CPU	Intel P4 2.8G minimum
Motherboard	Intel 865/915
HDD	160G minimum
RAM	512M minimum
VGA	NVIDIA GeForce MX440/FX5200 ATI RADEON 7500/ X300/ X250/ X5518
OS	Windows 2000(SP4 above) /Windows XP(SP2 above) /VISTA
DirectX	9.0

Table1-2 TD3316 System Requirements

NOTICE

- 1.The computer which installed TD3316 video card requires that motherboard and VGA card could support Window VISTA OS.
- 2.Motherboards listed below which has passed the test can work well with TD3316:
- Foxconn 865A01(Intel 865)
 - Ga-81pe1000-G 865(Intel 865)
 - Asus P4p800 865(Intel 865)
 - ASUS P5GD1-VM 915(Intel 915)
 - MSI 6728 865(Intel 865)
 - Abit IS7-E 865(Intel 865)
 - ASUS-P4GPL-X 915(Intel 915)
 - ASROCK 775I915PL-SATA2 915(Intel 915)

1.2.3 TD3101、 3104 USB Cards System Requirements

Card	TD3101, TD3104
PC Module	
CPU	Intel P4 Celeron processor , minimum 1700MHZ
Motherboard	Intel 845/865/915 series
HDD	80G minimum
RAM	256M minimum
VGA	GeForce2 , GeForce4 , FX5200 , ATI Rage128
OS	Windows 2000(SP4 above) /2003(SP2 above) /XP(SP2 above) /VISTA
DirectX	9.0
USB	2.0

Table1-3 TD3101、 3104 System Requirements

1.2.4 TD4104 Card System Requirements

Card	TD4104
PC Module	
CPU	Intel P4 Celeron processor 2.0G minimum
HDD	80G minimum
RAM	256M minimum
OS	Windows 2000 /2003 /XP /VISTA
DirectX	9.0

Table1-4 TD4104 System Requirements

NOTICE

1. Motherboards listed below which have passed the test can work well with TD4104:
- Intel 865G
 - GA-945PL-S3E
 - GA965P-S3
 - GA-K8V7890-9
 - GA-8IE2004P
 - ASUS P5PL2

- ASUS P5B-E
- 2. VGA cards listed below which have passed the test can work well with TD4104:
 - ATI X1600
 - ATI X300
 - NVIDIA Geforce 7300LE
 - NVIDIA Geforce 7600GS
 - NVIDIA Geforce 8500GT

If recorded disk partition's format is FAT32 and the system has run for a long time, the system will create a lot of data fragments that may results in system runs slowly. It's recommended to make disk defragmenter every 10 to 30 days. We strongly suggest that use NTFS format for record disk partition.

1.2.5 TD4116 Card System Requirements

PC Module \ Card	TD4116
CPU	Intel P4 Celeron processor 2.0G minimum
HDD	80G minimum
RAM	256M minimum
OS	Windows 2000/2003/XP/VISTA
DirectX	9.0

Table1-5 TD4116 System Requirements

Motherboards and VGA cards listed below which have passed the test can work well with TD4116 in Windows XP system:

Motherboard	VGA card
COLORFUL C975X-MVP	ATI HD2400
	NVIDIA GeForce 7600
	NVIDIA GeForce 7300
ASUS P5LD2-X	ATI HD2400
	ATI X300
ASUS P5B	ATI HD2400
	NVIDIA GeForce 7600
	NVIDIA GeForce 7300
	ATI X300
GA-965P-S3	ATI HD2400
	NVIDIA GeForce 7300
	ATI X300
GA-945PL-S3E	ATI HD2400
	NVIDIA GeForce 7600
	ATI X300
ASUS P5L-1394	ATI HD2400
	NVIDIA GeForce 7600
	ATI X300
ASUS P5GD1-VM	ATI HD2400
	NVIDIA GeForce 7600
	ATI X300

Motherboard	VGA card
	ATI X700

Table1-6 Motherboards and VGA Cards Support XP OS

Motherboards and VGA cards listed below which have passed the test can work well with TD4116 in Windows VISTA system:

Motherboard	VGA card
COLORFUL C975X-MVP	ATI HD2400
ASUS P5LD2-X	ATI HD2400
	ATI X300
GA-965P-S3	ATI HD2400
	ATI X300
ASUS P5L-1394	ATI HD2400
	ATI X300
ASUS P5GD1-VM	ATI HD2400
	ATI X300
	ATI X700

Table1-7 Motherboards and VGA Cards Support VISTA OS

1.3 System Specifications

- Format: PAL/NTSC.
- Resolution: TD3004, 3008, 3016, 3116, 3216, 3101, 3104 support 320x240 / 640x480 (NTSC), 352x288 / 704x576(PAL), TD3316 supports 352x240 / 704x480(NTSC), 352x288 / 704x576(PAL)and TD4104 supports 320x240(NTSC) , 352x288(PAL).
- Maximum Frame rate per channel: 25 fps (PAL), 30 ftp (NTSC).
- Screen set: resolution 1024x768, color quality 16 bits or 32 bits.
- Compression code rate: 50kbps – 1.2Mbps.
- Data format: MPEG4.

2

Hardware Installation

2.1 Video Capture Card Hardware

2.1.1 TD3004 Card Hardware

4CH PCB

BLOCK PICTURE

2004.05.15

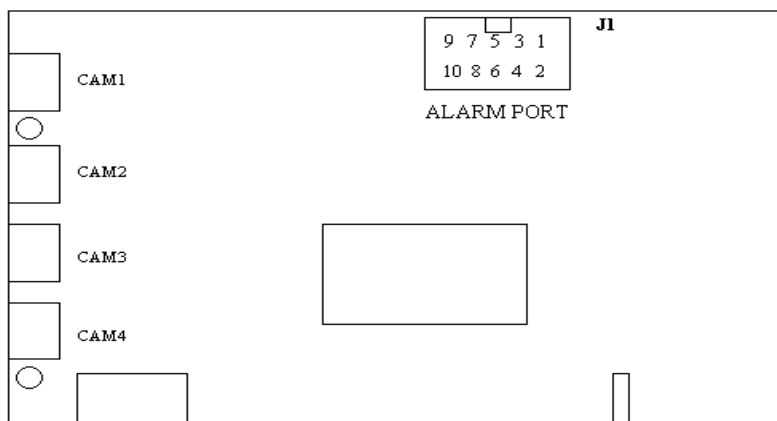


Figure2-1 TD3004 Video Capture Card

Pin Port	Define	Interpret
1PIN	5V	Power Source (5V)
2PIN	ALARM_COM	Alarm COM
3PIN	ALARM_NC	Alarm Normal Close
4PIN	ALARM_IN1	Alarm Input 1
5PIN	ALARM_NO	Alarm Normal Open
6PIN	ALARM_IN2	Alarm Input 2
7PIN	GND	Ground
8PIN	ALARM_IN3	Alarm Input 3

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.

Pin Port	Define	Interpret
9PIN	GND	Ground
10PIN	ALARM_IN4	Alarm Input 4

Table2-1 TD3004 Card Pins

2.1.2 TD3008 Card Hardware

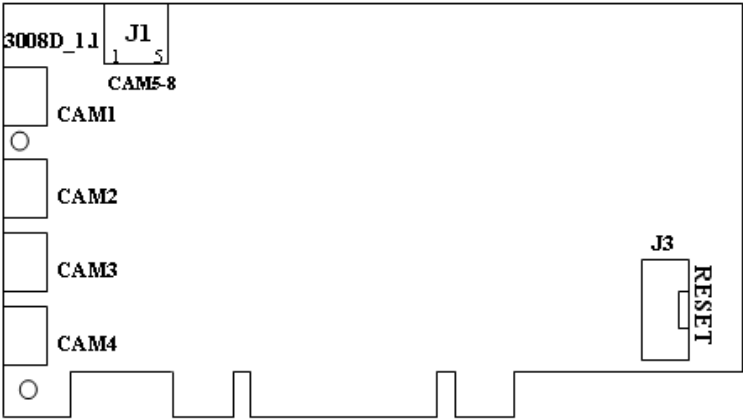


Figure2-2 TD3008 Video Capture Card

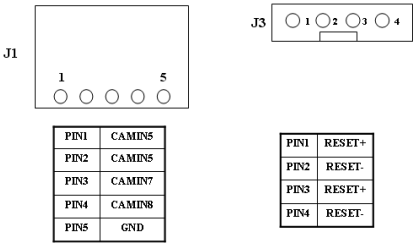


Figure2-3 Pins Definitions of TD3008 Video Capture Card

2.1.3 TD3016 Card Hardware

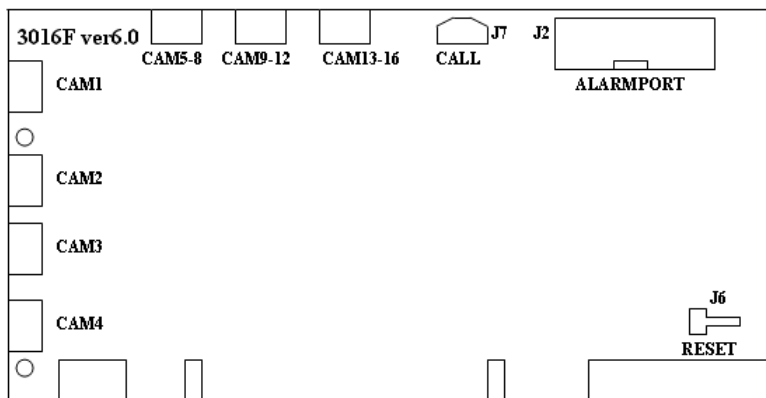


Figure2-4 TD3016 Video Capture Card Circuit Link for Watchdog Function

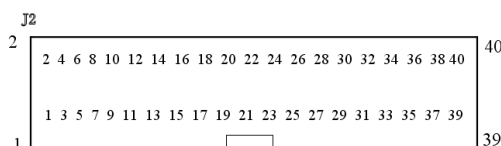


Figure2-5 TD3016 Video Capture Card Alarm Port

The Alarm Port pin definitions of TD3016 Card are as below:

Pin Port	Define	Interpret	Pin Port	Define	Interpret
Pin1	Alarm_in1	Alarm Input 1	Pin21	Alarm_out5	Alarm Output 5
Pin2	Alarm_in2	Alarm Input 2	Pin22	Alarm_out6	Alarm Output 6
Pin3	Alarm_in3	Alarm Input 3	Pin23	Alarm_out7	Alarm Output 7
Pin4	Alarm_in4	Alarm Input 4	Pin24	Alarm_out8	Alarm Output 8
Pin5	Alarm_in5	Alarm Input 5	Pin25	Alarm_out9	Alarm Output 9
Pin6	Alarm_in6	Alarm Input 6	Pin26	Alarm_out10	Alarm Output 10
Pin7	Alarm_in7	Alarm Input 7	Pin27	Alarm_out11	Alarm Output 11
Pin8	Alarm_in8	Alarm Input 8	Pin28	Alarm_out12	Alarm Output 12
Pin9	Alarm_in9	Alarm Input 9	Pin29	Alarm_out13	Alarm Output 13
Pin10	Alarm_in10	Alarm Input 10	Pin30	Alarm_out14	Alarm Output 14
Pin11	Alarm_in11	Alarm Input 11	Pin31	Alarm_out15	Alarm Output 15
Pin12	Alarm_in12	Alarm Input 12	Pin32	Alarm_out16	Alarm Output 16
Pin13	Alarm_in13	Alarm Input 13	Pin33	Alarm_Com	Alarm COM
Pin14	Alarm_in14	Alarm Input 14	Pin34	Alarm_NO	Alarm Normal Open
Pin15	Alarm_in15	Alarm Input 15	Pin35	Alarm_NC	Alarm Normal Close
Pin16	Alarm_in16	Alarm Input 16	Pin36	GND	Ground
Pin17	Alarm_out1	Alarm Output 1	Pin37	GND	Ground
Pin18	Alarm_out2	Alarm Output 2	Pin38	5V	Power Source (5V)

Pin Port	Define	Interpret	Pin Port	Define	Interpret
Pin19	Alarm_out3	Alarm Output 3	Pin39	Not Used	Not Used
Pin20	Alarm_out4	Alarm Output 4	Pin40	Not Used	Not Used

Table2-2 Pins Definitions of TD3016 Card

2.1.4 TD3116 Card Hardware

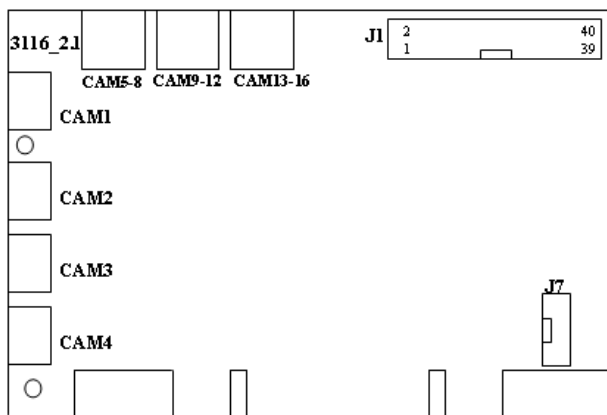


Figure2-6 TD3116 Video Capture Card

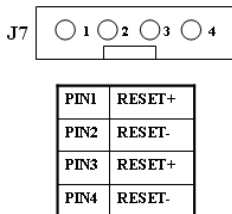
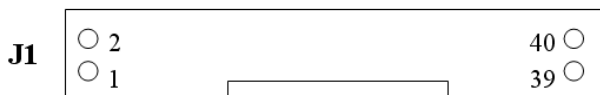


Figure2-7 Reset Pins Definitions of TD3116 Video Capture Card



PIN1	AI1	PIN9	AI9	PIN17	AO1	PIN25	AO9	PIN33	ALAM-COM
PIN2	AI2	PIN10	AI10	PIN18	AO2	PIN26	AO10	PIN34	ALAM-NO
PIN3	AI3	PIN11	AI11	PIN19	AO3	PIN27	AO11	PIN35	ALAM-NC
PIN4	AI4	PIN12	AI12	PIN20	AO4	PIN28	AO12	PIN36	GND
PIN5	AI5	PIN13	AI13	PIN21	AO5	PIN29	AO13	PIN37	GND
PIN6	AI6	PIN14	AI14	PIN22	AO6	PIN30	AO14	PIN38	5V
PIN7	AI7	PIN15	AI15	PIN23	AO7	PIN31	AO15	PIN39	NOT USED
PIN8	AI8	PIN16	AI16	PIN24	AO8	PIN32	AO16	PIN40	NOT USED

Figure2-8 Pins Definitions of TD3116 Video Capture Card

2.1.5 TD3216 Card Hardware

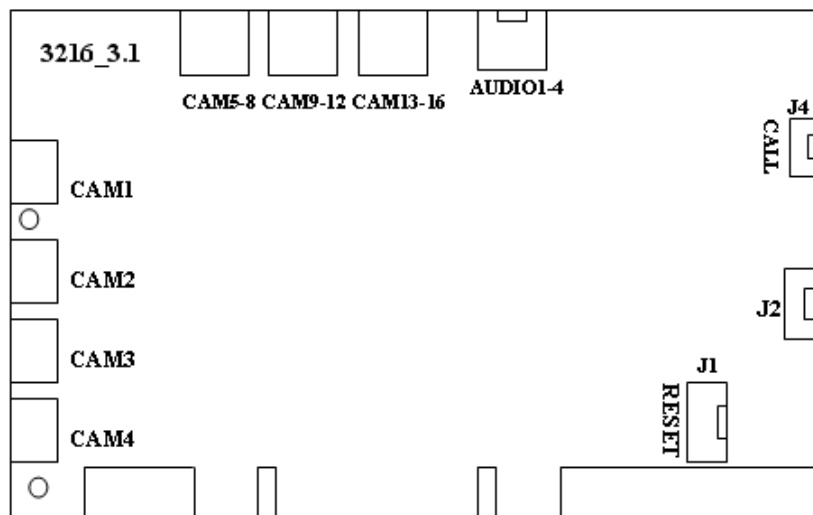


Figure2-9 TD3216 Video Capture Card

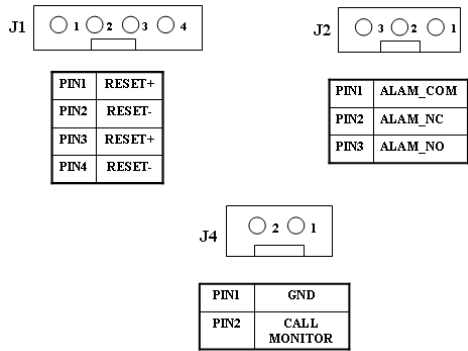


Figure2-10 Pins Definitions of TD3216 Video Capture Card

2.1.6 TD3316 Card Hardware

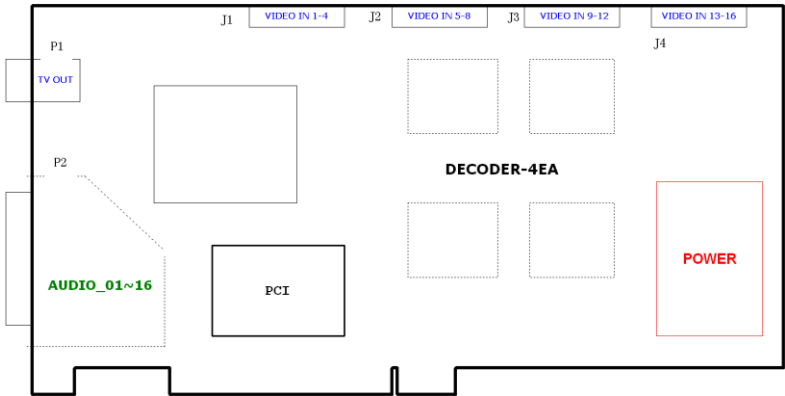
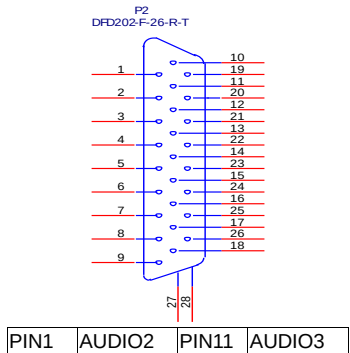


Figure2-11 TD3316 Video Capture Card



PIN2	AUDIO4	PIN12	AUDIO5
PIN3	AUDIO6	PIN13	AUDIO7
PIN4	AUDIO8	PIN14	AUDIO9
PIN5	AUDIO10	PIN15	AUDIO11
PIN6	AUDIO12	PIN16	AUDIO13
PIN7	AUDIO14	PIN17	GND
PIN8	AUDIO15		
PIN9	AUDIO16	/	
PIN10	AUDIO1	PIN26	

Figure2-12 Audio Connector and Pins Definition

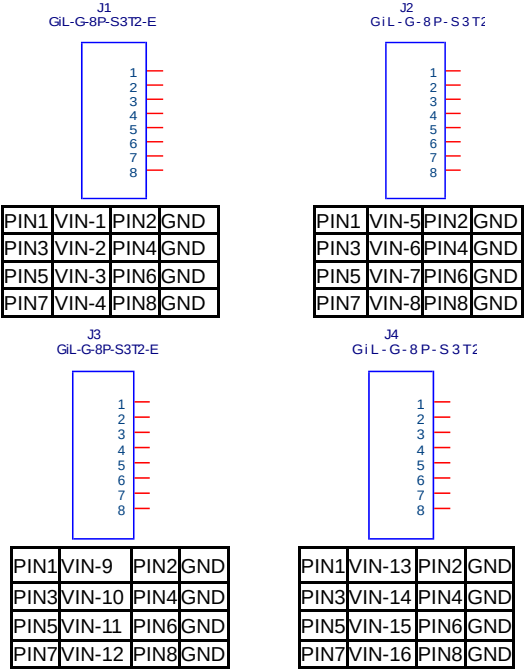


Figure2-13 Video Pins Definition

2.1.7 TD3101 USB Card Hardware

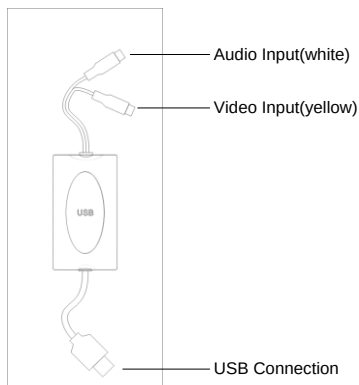


Figure2-14 TD3101 USB Video Capture Card

2.1.8 TD3104 USB Card Hardware

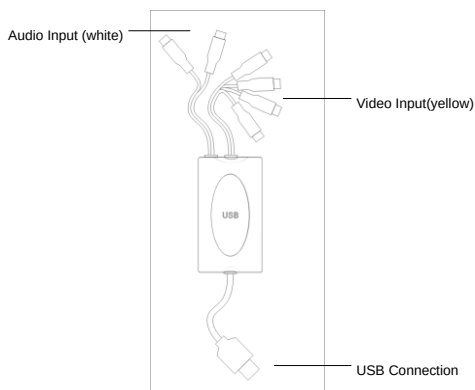


Figure2-15 TD3104 USB Video Capture Card

NOTICE

- Make sure that your PC USB interface is 2.0.
- TD3101/3104 card can only support USB 2.0.

Please according to the following steps to safely remove the USB card: Right clicks on the Taskbar Stop device pull out the USB card.

Using TD3101/3104 card with other USB device simultaneously may cause PC cannot identify USB card.

Do not insert two or more USB video capture cards simultaneously.

Do not use with the other PCI video capture card simultaneously.

2.1.9 TD4104 Card Hardware

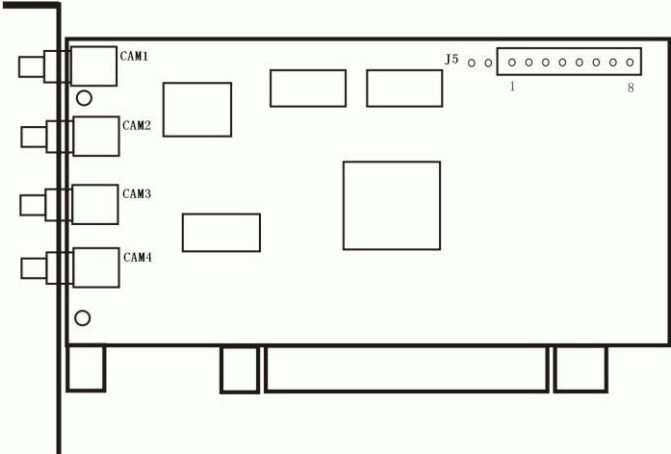


Figure2-16 TD4104 Video Capture Card

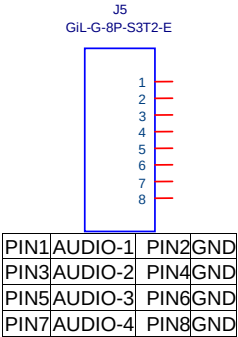


Figure2-17 Definition of Audio Connector's Pins

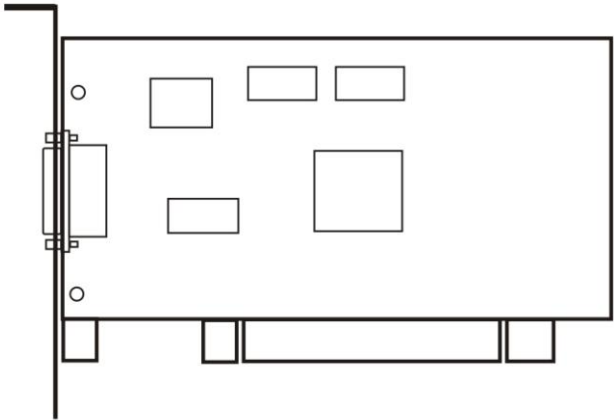


Figure2-18 TD4104 Video Capture Card

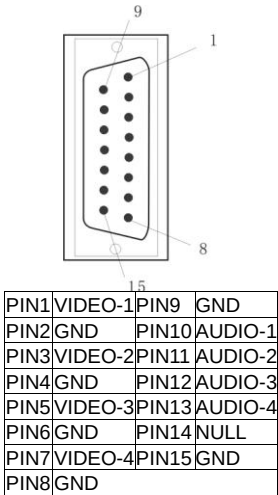


Figure2-19 Definition of Audio and Video Connector's Pins

NOTICE
Our TD4104 cards have two different ports, please refer to your user manual according to the product you purchase.

When there are some TD4104 card connect together, please connect the line as following figure.

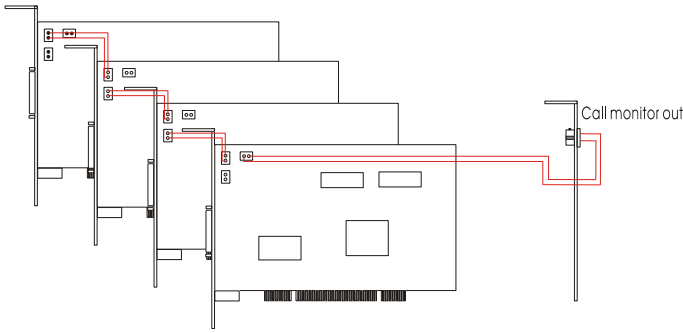


Figure2-20 Multi-Card Connection

2.1.10 TD4116 Card Hardware

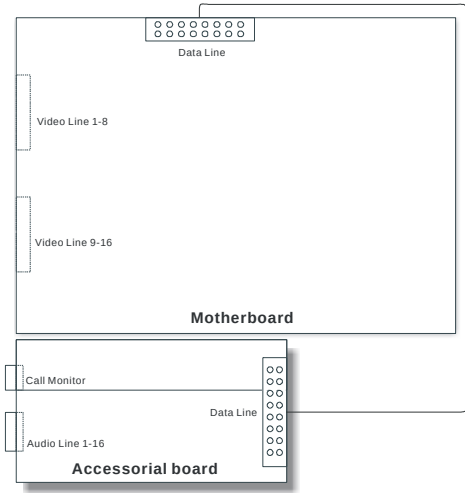


Figure2-21 TD4116 Video Capture Card

The Call Monitor interface is used to connect the simulant monitor.

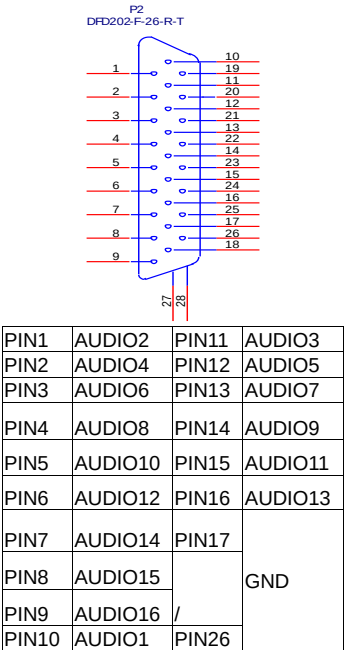


Figure2-22 Audio Connector and Pins Definition

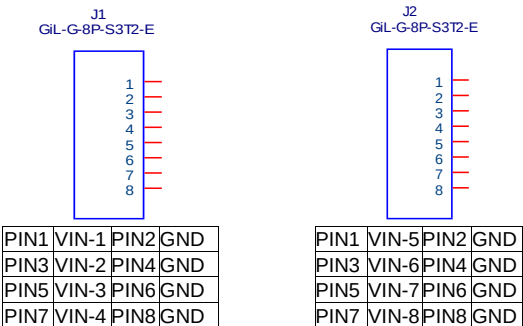


Figure2-23 Video Pins Definition

2.1.11 Alarm Board Hardware

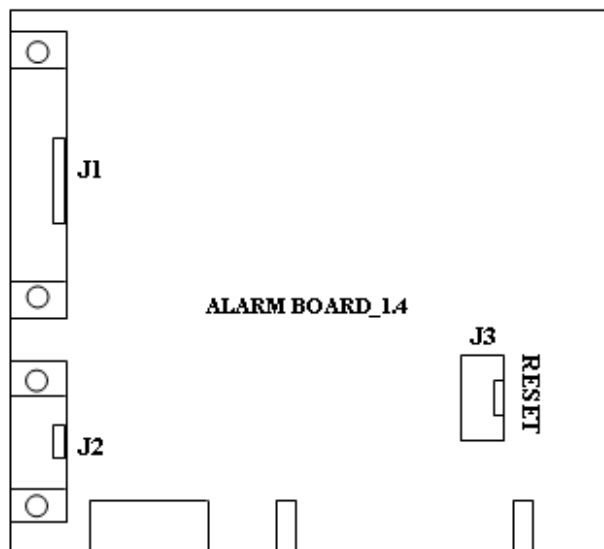
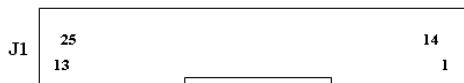


Figure2-24 Alarm Board



PIN1	AI0	PIN6	AI5	PIN11	AI10	PIN16	AI15	PIN21	ALAM_COM
PIN2	AI1	PIN7	AI6	PIN12	AI11	PIN17	A0	PIN22	ALAM_NO
PIN3	AI2	PIN8	AI7	PIN13	AI12	PIN18	A1	PIN23	ALAM_NC
PIN4	AI3	PIN9	AI8	PIN14	AI13	PIN19	A2	PIN24	GND
PIN5	AI4	PIN10	AI9	PIN15	AI14	PIN20	A3	PIN25	VCC

Figure2-25 Pins Definition of Alarm Board

Connect J2 to PC serial port and you may use alarm board by SuperDVR system.

2.1.12 Connect Audio Signal

For TD3004/3008/3016/3116/3216/4104, connect the audio input device to the microphone connector on the motherboard.

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

Before installing the Video Capture Card hardware in PCI port of the motherboard, make sure you've installed Microsoft DirectX 9.0. Then turn on the computer, the system will remind you to 'Found new hardware'.

NOTICE

Just click '**Cancel**' and ignore the pop-up message.

Insert the CD that contains TD series capture card driver into the CD tray, and run Setup.exe program to install the driver. The default installation path is 'C:\Program Files\SuperDVR'.

NOTICE

In case it warns that 'Can't find card' when running the SuperDVR software, please restart the computer.

2.2 Install Video Capture Card Driver

STEP1 : Run Setup.exe, and the installation interface appears as below:



Figure2-26 TD Series Video Capture Card Installation Interface

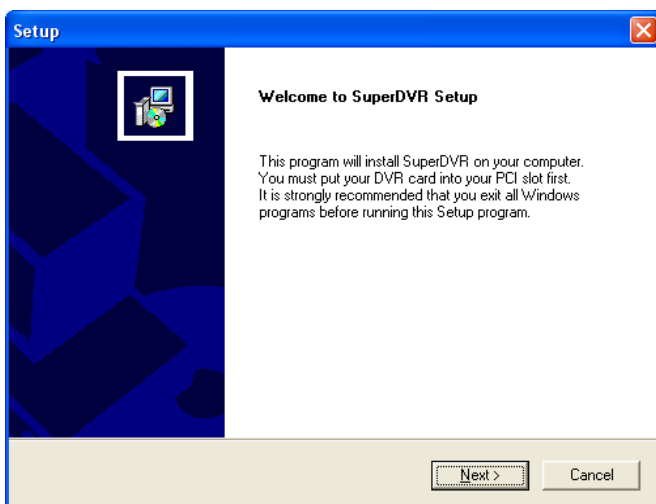


Figure2-27 Welcome Page

STEP2 : Select 'Next'.

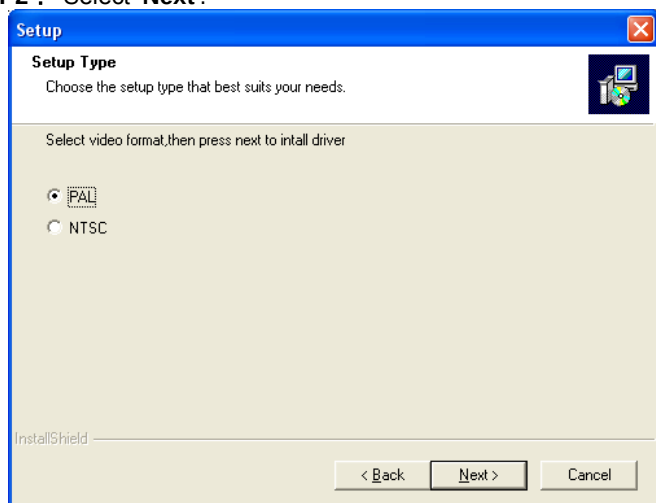


Figure2-28 Select Video Format

STEP3 : Select 'Next'.

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

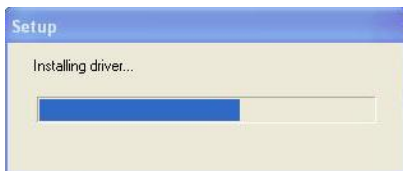


Figure2-29 Rate of Progress of Driver Installation

STEP4 : After this process it begins to install the application package SuperDVR, as below:

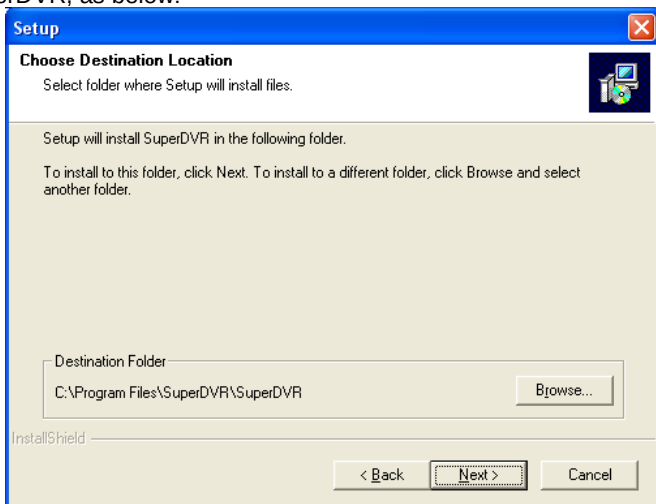


Figure2-30 Select Installation Folder

STEP5 : Select the suitable option, and click 'Next'.

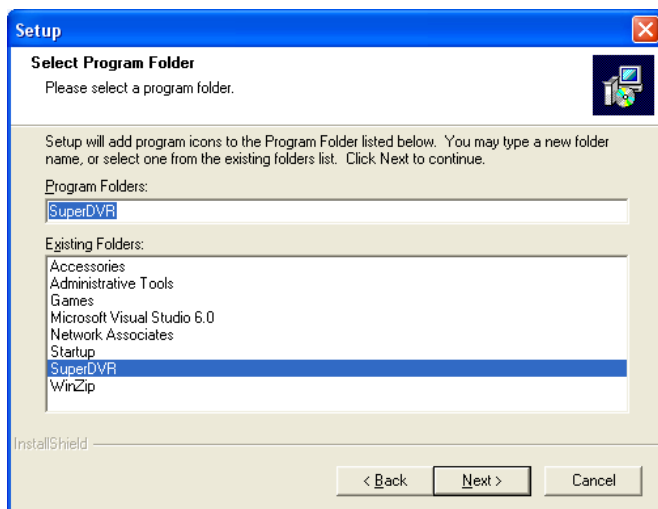


Figure2-31 Register Application

STEP6 : Click 'Next'.

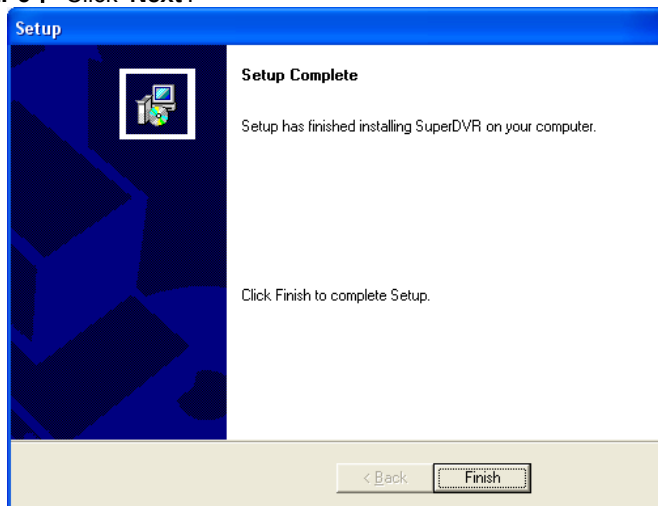


Figure2-32 Driver and Application Installation Finished

STEP7 : Click 'Finish'.

STEP8 : Now, after all the processes are finished, restart the computer and launch the surveillance program. It will create a shortcut on the desktop.

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.



Figure2-33 Shortcut of SuperDVR

NOTICE

When you install the driver software on Microsoft VISTA system, you need select the option as below figure first. And steps of install the driver software on Microsoft VISTA system are the same as on Microsoft XP system.

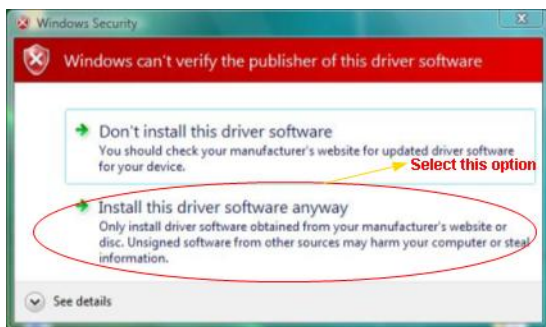


Figure2-34 Install the Software on VISTA

In case users cannot run the SuperDVR program, users restart the computer.

3

Main Display Interface

Run SuperDVR program and the main display interface appear as below:



Figure3-1 SuperDVR Main Display Interface

3.1 Display Control Panel

3.1.1 Display Control Panel



Figure3-2 Display Control Panel

Display control panel includes Display Mode buttons and disk free space indicator, 'Auto Dwell' button, 1, 4, 6, 8, 9, 13, 16channels display buttons. Every button has its built-in indicator light. When switch on and off the buttons, the relative indicator lights turn on and off to indicate the working status.

NOTICE

Users can judge which buttons are working by the color of the buttons.

3.1.2 Display Modes



Figure3-3 Display Modes Panel

NOTICE

- In case the card installed is 4CH CARD, then only 1CH and 4CH buttons are valid.
- In case the cards installed are 2 pieces of 4CH CARDS or a piece of 8CH card, then only 1CH, 4CH, 6CH, 8CH, 9CH buttons are valid.
- In case the cards installed are 4 pieces of 4CH CARDS or 2 pieces of 8CH cards or a 16CH card, then 1CH, 4CH, 6CH, 8CH, 9CH, 13CH and 16CH buttons are all valid.

3.1.3 Flip Pages

When the display mode is 1CH, 4CH, 6CH, 8CH, 9CH or 13CH, click , system will display the next page according to the display mode.

3.1.4 Auto Dwell Display Mode

In case users want to see all the channels in sequence, then click  and enter Auto Dwell display mode.

3.1.5 Quick Switch

In case the present display mode is 4CH, 9CH or 16CH, by clicking any image or the present display mode is 6CH, 8CH or 13CH, by clicking the bigger image, the display will quickly switch to corresponding single channel display

mode. When the present display mode is 6CH, 8CH or 13CH, by clicking any image other than the bigger one, users can change the position of the image with the bigger one. By clicking the single image again, it will return to the former display mode.

3.2 Login



Click , and login window appears. Input the user name and password, the default user name is 'SYSTEM' with no password, users can access to the main interface. Users can change password for SYSTEM and create new user names and passwords once has entered the system.

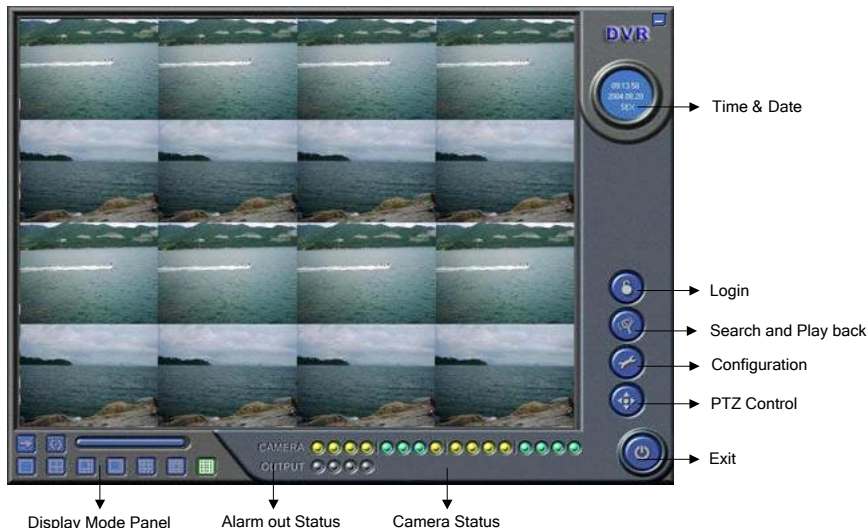


Figure3-4 Main Interface

3.3 Record

3.3.1 Record Modes

According to different record triggering methods, TD series video capture cards offer users with 4 kinds of record modes:

- Schedule record mode (timer)
- Manual record mode
- Motion Detection record mode
- Sensor Alarm record mode

Motion Detection record mode and Sensor Alarm record mode are together called as Alarm Record.

In case users use multiple cameras to record, every camera works separately and the record file also saved separately. The parameters, i.e. camera ID, record date/time and record mode are all saved together with the record file.

3.3.2 Record Setup

	CAM1	CAM2	CAM3	CAM4	CAM5	CAM6	CAM7	CAM8	CAM9	CAM10	CAM11	CAM12
Name	CAM1	CAM2	CAM3	CAM4	CAM5	CAM6	CAM7	CAM8	CAM9	CAM10	CAM11	CAM12
☐ Time Stamp												
☐ Switch		☒	☒		☒	☒	☒	☒	☒	☒	☒	
☐ Manual Record							☒	☒		☒	☒	
Manual Record Frame Rate	6	6	6	6	6	6	6	6	6	6	6	6
☐ Schedule Record												
Schedule Record Frame Rate	3	3	3	3	3	3	3	3	3	3	3	3
☐ Motion Detection		☒	☒									
Motion Record Frame Rate	6	3	6	6	6	6	6	6	6	6	6	6
Sensor Record Frame Rate	6	6	6	6	6	6	6	6	6	6	6	6
☐ Camera Security												
Record Quality	medium	lower	medium	medium	medium	medium	medium	medium	medium	medium	medium	medium
Audio In	None	None	None	None	None	None	None	None	None	None	None	None

Figure3-5 Record Configuration Panel

In the ‘Record Panel’ of the Basic Configuration page, users can set all kinds of necessary parameters for recording.

1. Time Stamp

By selecting the options, the record date / time message appears in the record file images.

2. Switch

By selecting the options, users can turn on corresponding cameras. In case there is no camera for some channel, don’t select the option so as to save system resource.

3. Manual Record

By selecting the options, the relative camera images will be recorded and saved all the time.

4. Manual Recording Frame Rate

Select the record frame rate for manual record mode.

5. Schedule Record

Schedule record option.

6. Schedule Record Frame Rate

Select Schedule Record frame rate.

7. Motion Detection

By selecting the options, users can set relative channels’ record mode as motion detection.

8. Motion Record Frame Rate

Select record frame rate for Motion Detection record mode.

9. Sensor Record Frame Rate

If sensors are utilized to trigger recording, users can select record frame rate here.

10. Camera Security

The users are divided into three standards: Normal user, Power user and Administrator. By selecting the options, only administrators can see the corresponding channels.

11. Record Quality

Select record image quality here.

12. Audio in

SuperDVR4.3 system can support one channel of microphone audio input signal on the PC motherboard and audio inputs on the card if it has.. Users can choose one video channel associate these audio signals.

NOTICE

Users can select more than one record mode.

3.3.3 Record Status Panel



Figure3-6 Record Status Panel & Alarm Output Status Panel

Meanings of indicator light colors in row one are as below:

-  Grey light: Normal State
-  Viridescent light: Manual Record State
-  Bottle-green light: Schedule Record State
-  Yellow light: Motion Detection Record State
-  Red light: Sensor Alarm Record State
-  Blue light: Video Loss State

When the indicator light color turns into red  in row two, it means there is alarm output.

3.3.4 Manual Record Mode

Manual Record mode is the most commonly used record mode. In case there is any special event happens, users can select this record mode and record timely.

NOTICE

You can select high frame rate for short time manual record, while select low frame rate for long time Schedule Record.

3.3.5 Sensor Alarm Record Mode

Users can use sensors to trigger sensor alarm record for relative channels. At

that time, the record status indicator light will turn red



3.3.6 Motion Detection Record Mode

It will enable the system to detect image changes and begin to record by activating motion detection and motion alarm record. For instance, somebody opens the door, and the system detects image changes and begins to record, then users can play back the recorded file and find out who opened door. When there is no movement, the system won't record and that's helpful for saving system resource, and convenient for searching for event record file.

The indicator light color in the record status panel is yellow



NOTICE

Users may need to setup in three places so as to enable motion detection record.

- Select '**Motion Detection**' for certain channels in '**Basic Configuration**'.
- Configure the motion detection areas for certain channels in '**Motion Detection Configuration**'.
- Configure working schedule for certain channels in '**Schedule Configuration**'.

3.3.7 Schedule Record

Users can set working schedule for all kinds of record modes in '**Schedule**

Configuration'. The bottle-green light



record mode to manual record at any time, and the bottle-green light



will change into viridescent light



Please refer to '4.4 Schedule Configuration' for details.

3.3.8 Recycling Record

If users enable Recycling Record function and all the selected HDD partitions are full, the former record data will be covered by the latest record data.

Users can set recording storage sequence for HDD partitions. The recording storage will automatically jump to the next partition when it's full. If all the partitions are full and recycling record mode has been enabled, the new data will overwrite the former recorded data automatically. Users can also set HDD minimum storage alarm. Then once the present storage space is less than the minimum storage and recycling record mode hasn't been enabled, the record will automatically stop.

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

4 System Setup

Click  and enter the main setup interface.

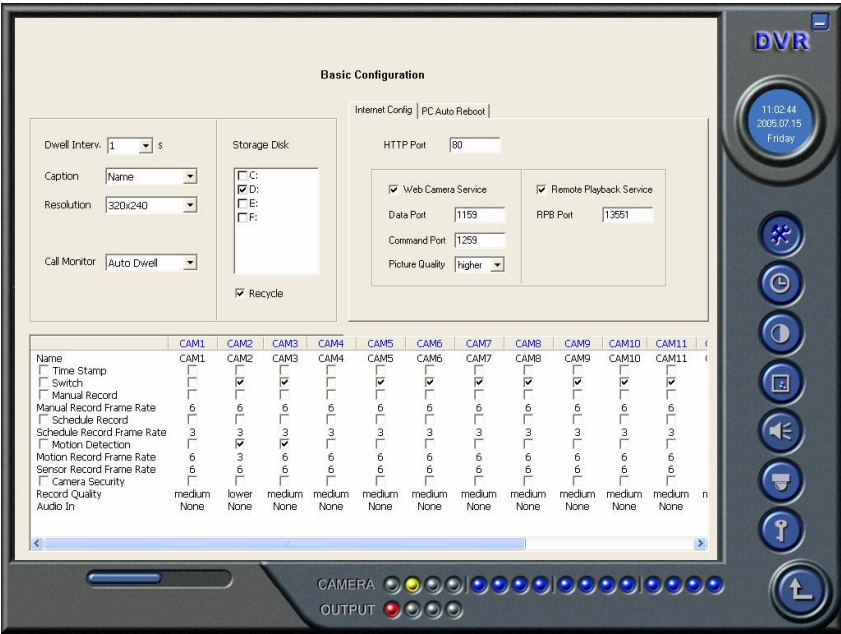


Figure4-1 Basic Configuration

The definitions of the buttons in Figure4-1 are as below:



Basic Configuration



Schedule configuration



Video configuration



Motion Detection Configuration



Alarm Configuration



P.T.Z Configuration



User Configuration

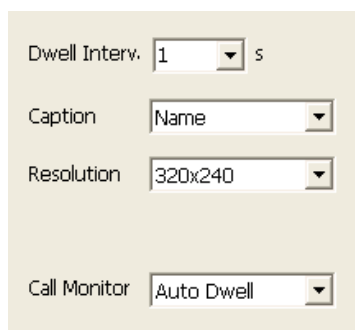


Save and Return

4.1 Basic Configuration



Click  and enter the basic configuration page where users can setup the system or just use the defaults.



The form contains four configuration options, each with a label and a dropdown menu:

- Dwell Interv. 1 s
- Caption Name
- Resolution 320x240
- Call Monitor Auto Dwell

Figure4-2 Caption and General Configuration

1. Dwell Interval.

If users enable Auto Dwell function in the main interface page, users can set the dwell time of a page here.

2. Caption

There are four options, None, ID, Name and ID/Name for users to select for all the channels.

- 'None' means no title;
- 'ID' means camera numbers, i.e. 1, 2, 3 and so on;
- 'Name' means camera names, i.e. Cam1, Cam2 and so on;
- 'ID/Name' means both camera number and camera name, i.e. 1/Cam1, 2/Cam2 and so on.

3. Resolution

There are four options, 320×240, 352×288, 352×240, 640×480 for users to select for all the channels. As the video may have interlace lines if the users select 640×480, users may choose ☒ De-Interlace for solve this problem, but

it will occupy much more CPU loading.

4. Call Monitor

Only TD3016, TD3216 and TD3316 have call monitor function at present. Users can connect another monitor to the card and select the display modes here.

The following is about record data storage. Please check '4.3 Motion Detection Configuration'.



Figure4-3 Record Data Storage Precept

Above, SuperDVR system shows all the available HDD partitions for users. Users can select one or more of the partitions that will be used in sequence from up to bottom. Please refer to chapter 3.3.8 to learn more about recycling record.

In the following area in the basic configuration page, users can input the computer user name and password in the relative boxes. Then when restarting the computer system, it will access to the system with the user name and password input in the boxes.

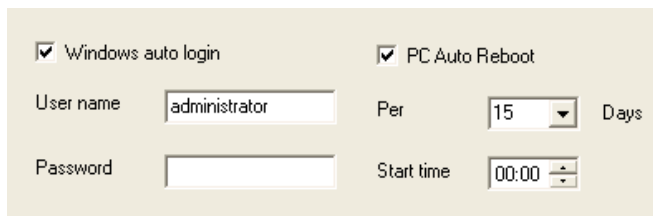


Figure4-4 Computer System Reboot Setup

As the windows system may become unstable after a couple of days continue operating, which will cause SuperDVR system unstable? Then users should reboot the computer. Select ☒ PC Auto Reboot and set the interval by day, which will guide the system to reboot automatically according to the setups.

Click  to return to the main display interface.

4.2 Video Configuration

Click  and enter the video configuration page as below. Users can change the values of corresponding items, i.e. contrast, brightness, hue, saturation, auto gain, by drawing the levers on the bars. Click 'Default', and all the values will return to the default value.



Figure4-5 Video Configuration

Definitions of the setup items:

1. Contrast
set image color contrast.
2. Brightness
set image brightness.
3. Hue
set image hue.

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.

4. Saturation
set image Saturation.
5. Auto Gain
users can set it as auto or manual. Only 4CH Card and 16CH card have this
function (except TD3316 because of only having manual gain function).
6. Default
load defaults, i.e. set the first four items value as 5000 and the last item value
as 0.

4.3 Motion Detection Configuration



Click  and enter Motion Detection Configuration page, TD3004, TD3008, TD3016, TD3116, TD3216, TD3101, TD3104 and TD4104 as below:

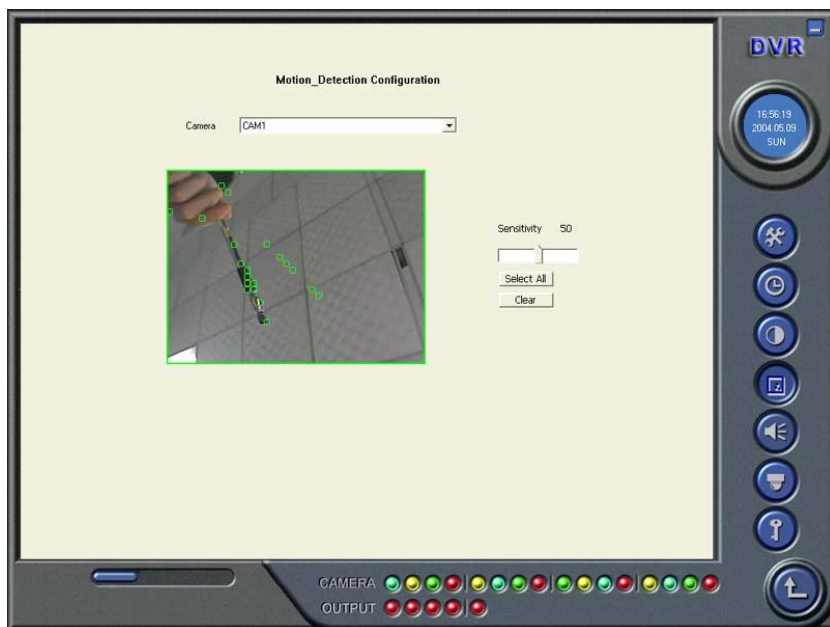


Figure4-6 Motion Detection Configuration

Definition of the setup items:

1. Sensitivity
users can set motion detection sensitivity here.

2. Select All
select all the areas of the channel as detection area
3. Clear
clear all the detection areas and then users can select customized detection areas by cursor.

4.3.1 TD3316 Card Motion Detection Configuration

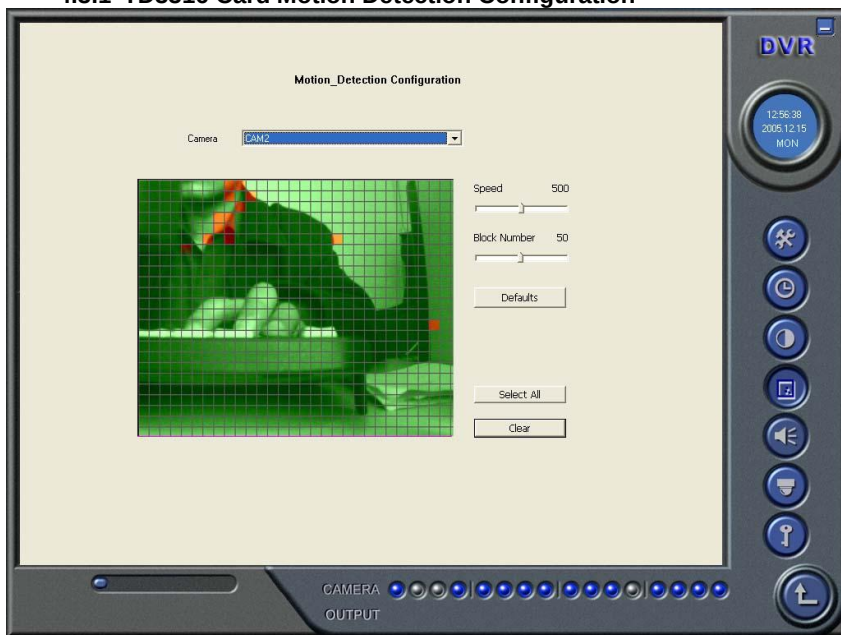


Figure4-7 TD3316 Card Configuration Page

1. Speed
Motion detection sensitivity.
2. Block Number
Set grid's number.
3. Defaults
Set as default.

4.3.2 Set Motion Detection Area

In case users want to customize the detection areas for a certain channel, first select the camera, then select 'Clear' and drag the cursor in the box in the left side. Now, users can see a green box appears which shows the motion detection area. Users can select maximum 16 customized areas for each channel.

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

By click 'Clear', users can clear all the selected areas.

4.3.3 Set Motion Detection Sensitivity

Draw the bar and select a certain value for motion detection sensitivity.

4.4 Schedule Configuration



Click and enter Schedule Configuration page as below:

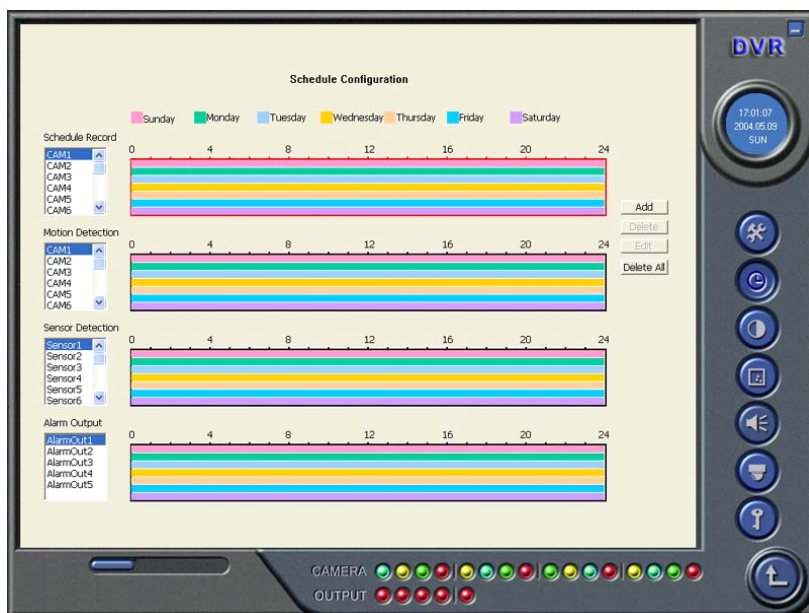


Figure4-8 Schedule Configuration

Our TD series system offers the users with powerful schedule configuration options. Every channel has three kinds of record modes, i.e. schedule record, motion detection record and sensor alarm record. We provide users to set schedules from Sunday to Monday separately for all of the three record modes. Sensor alarm record mode has the highest priority among all record modes. Here users can set schedules for it.

When users need to edit schedule for a channel, first select the camera name in the three record modes group, and select the color bars on the right side, then select 'Edit' to edit schedules. Click 'Add' to add schedule for a certain channel.

NOTICE

The added schedule should not be reduplicate to the former settings.

Click '**Delete**' to delete schedule. Click '**Clear All**' to delete all the schedules of a certain channel.

See the Figure4-9 Edit Schedule and learn how to edit schedules for a channel:

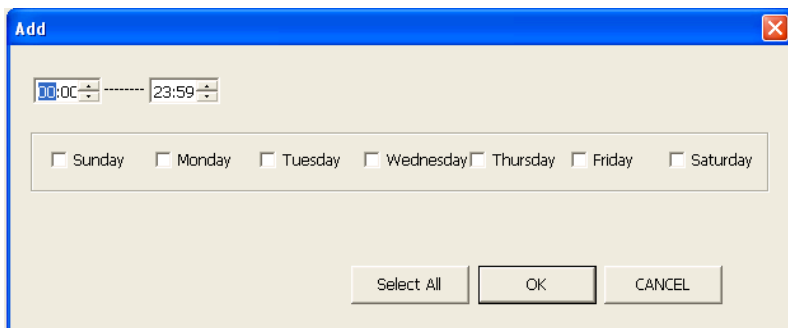


Figure4-9 Edit Schedule

4.5 Alarm Configuration

4.5.1 Alarm Triggering Conditions Configuration

The system can receive alarm both from local place and network.

Local Alarm Record Triggering Configuration

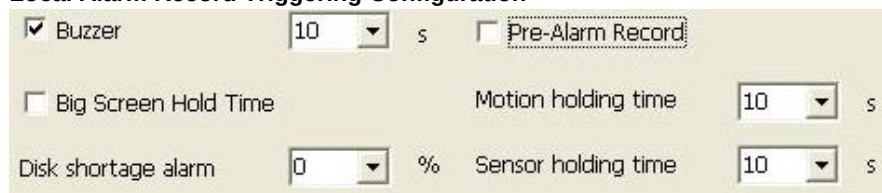


Figure4-10 Local Alarm Triggering Configuration

Relative Explanations:

1. Buzzer

Users can select whether to open the computer buzzer if the alarms have been triggered and also select how long the buzzer rings

2. Pre-Alarm Record

Users can select whether to enable alarm pre-record and also pre-record time.

3. Big Screen Hold Time

It could set alarm hold time of Big Screen.

4. Motion Holding Time

Motion sensor may detect some movement, only if the movement lasts for a period exceeding the default time, then the alarm record will begin and buzzer beeps.

5. Sensor holding time

Sensor may detect some induction, only if the movement lasts for a period exceeding the default time, then the alarm record will begin and buzzer beeps.

6. Disk Shortage Alarm

If the HDD available space is less then the set percent, the buzzer will beep if 'Buzzer' has been selected.

Alarm Output Terminal in LAN

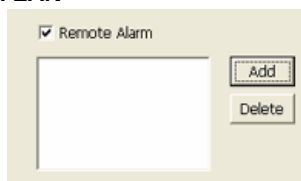


Figure4-11 Alarm Output Terminal in LAN

Select '**Remote Alarm**', and enter the area as Figure4-11 shows.

Click '**Add**' to add alarm output terminals in LAN. Look the figure below:

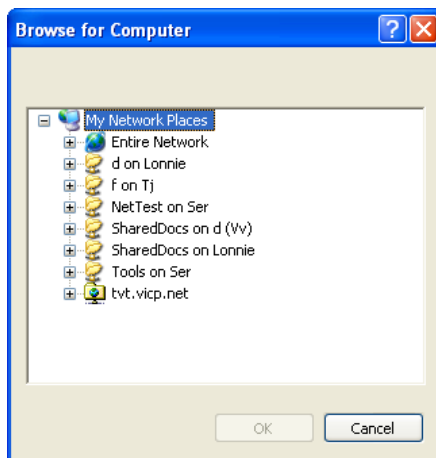


Figure4-12 Add Alarm Output Terminal in LAN

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.

Find the terminal computer and click 'OK', and users can see the name of the selected terminal will appear in the box as below:

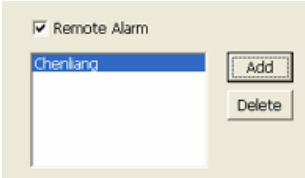


Figure4-13 List of Alarm Output LAN Terminals

NOTICE
This function is only valid in LAN, not in Internet.

4.5.2 Alarm Record

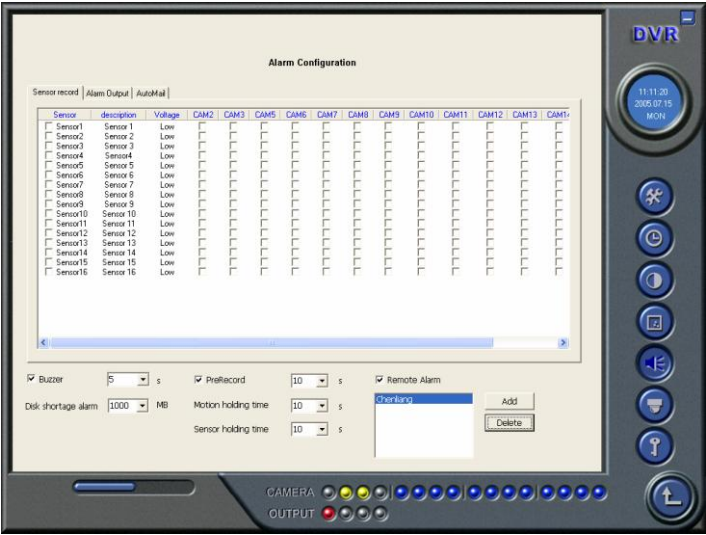


Figure4-14 Alarm Trigger Method Configuration

Every sensor can trigger multiple channels to record. For example, if users select CAM1, CAM4 and CAM5 for Sensor2, then once the sensor is activated, CAM1, CAM4 and CAM5 will begin to record. Users can also select the voltage, high and low, for alarm signals.

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

4.5.3 Alarm Output

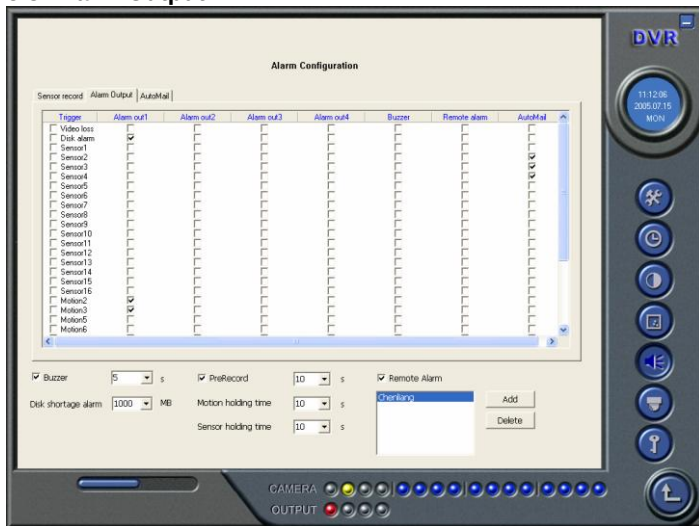


Figure4-15 Alarm Output Configuration



Press  in the main interface and access to the following Alarm Configuration area where users can make motion detection alarm setup, sensor alarm setup and short of HDD space alarm setup.

1. Video Loss

Users can select alarm output for this option. For example, users select alarm_out1 and alarm_out3 and remote alarm for video loss. Then video loss of any channel will trigger alarm_out1, alarm_out3 to show red light in the Alarm output status panel (refer to Figure3-6 for reference), and the system will give out related warning message to the terminals in List of alarm output LAN terminals (refer to Figure4-12)

2. Disk Alarm

when HDD available space is less than the set value (refer to Figure4-10), it will trigger selected alarms.

3. Sensor 1

If users have mounted sensors, when the sensors have been activated, then it will trigger the selected output alarms.

4. Sensor 2 - Sensor 16

TD3004 card has maximum 4 sensors, and TD3016 and TD3116 card have maximum 16 sensors.

5. Motion 1

Users can set motion detection alarm output by different alarms and remote alarm.

6. Motion 2 - Motion 16

4CH card has maximum 4 motion alarms, 8CH card has maximum 8 motion alarms, and 16CH card has maximum 16 motion alarms.

NOTICE

You should choose our additional alarm device board while using TD3008, TD3216, TD3316, TD4104 cards for alarm I/O.

4.5.4 Auto Mail Function

Now users can select the above-mentioned alarms to be output by Auto Mail.

Click '**AutoMail**' icon on the left top side of alarm configuration page and enter the following area to make Auto Mail setup, referred Figure4-16.

Figure4-16 AutoMail Setup Interface

In this area, users can set receiver and sender's E-mail SMTP server and address. Note: the address of receiver and sender can be the same.

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.

Mail Server Setup:

Smtip Server: smtp.yahoo.com User Name: zhangguojun4571@yahoo.com

E_Mail From: zhangguojun4571@yahoo.com Password: *****

Mail Setup:

Send To: lbj32@gmail.com Subject: From SuperDVR

Send Mail Test ☒ Attachment

Sender's SMTP Sender's User Name

Sender's E-mail Address Receiver's E-mail Address E-mail Subject Sender's Password

Figure4-17 Auto Mail Setup

To test the settings, click **'Send Mail Test'**. If all settings are okay, message **'Message Sent Successfully'** will pop up. If some settings are wrong, there will pop up corresponding warning message.

Enable **'Attachment'**, then the present image when an alarm triggered will be sent to appointed mailbox, referred Figure4-18.

Attachment Setup

Camera

2004/09/27 15:14:55

Channel Name ☒ Camera ☒ Time Display Time

Image Format Format: JPG Resolution: Cif Resolution

Figure4-18 Attachment Setup

NOTICE

For every alarm event, only one picture will be sent.

Users can put into a short message to make introduction of the Auto Mail, so the receiver will know what happened.

4.5.5 E-map Configuration

E-map is used to show full geographic range covered by the whole monitoring system in the form of map .An E-map has the feature of simple operation and direct display of status and it is generally graded or tiered in the form of a tree diagram.

Edit Map

In windows OS, save related pictures in the folder of 'My computer', as '*.bmp' or '*.jpg'.

Click  to enter 'Emap → Emap Edit', press right key of Load Picture in the default interface of map and select the required map file in the related folder,open the file and the map will be displayed in this interface, as Figure4-19 E-Map Edit.

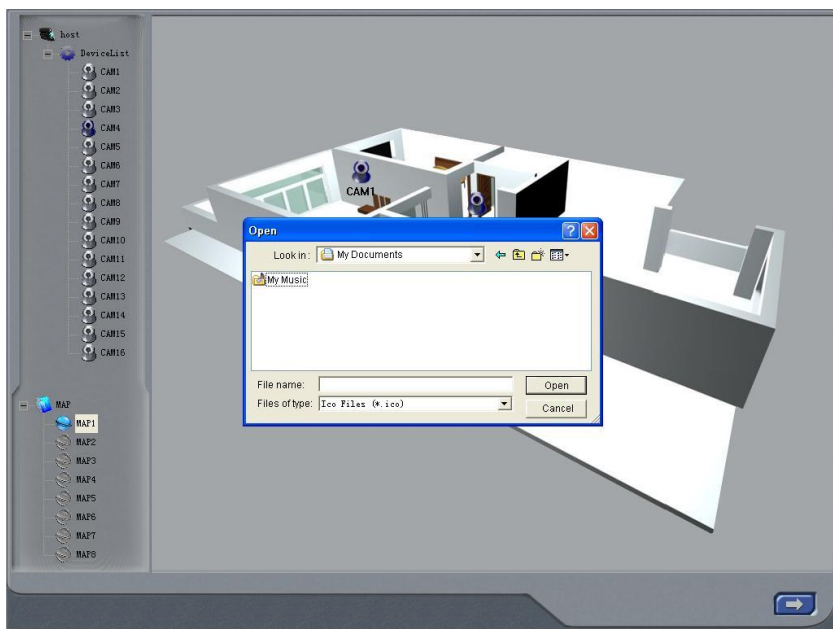


Figure4-19 E-Map Edit

Draw the icon of camera to the corresponding position in the map, maximum 16 cameras can be set simultaneously, Click 'change icon' of camera by right key to change icon and click '**Delete**' to cancel camera. After editing, click right key in the map and select '**Save Map**' to save the current map.

A gray map icon can be drawn to the corresponding position in the map on the

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

right and set it as a sub-map of the current map, or click the gray map icon on the left by right key and select '**Open**' to build a new map. And you can also click the blue map icon on the left by right key, and select '**Rename**' to change name of the map or select '**Close**' to cancel this map.

View Map



Click  to enter Emap, where the user can view distribution of all cameras in the map, as Figure4-20 View Camera.



Figure4-20 View Camera

When a channel alarm, the camera icon will flash yellow alarm signal. Select '**Auto Show**', in case of accident alarming, an alarming screen will pop out automatically and you can know about the alarming position rapidly. Click the camera head by right key to show the screen on the spot.

NOTICE

1. The map tree currently supports three levels and it is invalid for addition exceeding three levels.
2. For loading of a picture, when any side of length and width of the picture exceeds size of picture frame, it will be enlarged and shortened proportionally and standard size of picture frame is 833*678.

3. On this interface, click camera by right key to display the spot and the 3316 card does not support this function temporarily.
4. If 'Auto Close' is set in case that E-map pops up by automatic alarming, the E-map interface set with 'Holding Time' without any operation and alarm will be close automatically. 'Auto Close' is invalid when the E-map is opened manually.
5. The map in the E-map is the default demonstration map, and the user can invite an engineering merchant to make the practical map or draw a map by their own according to their actual needs, then scan and save it in the computer to picture.

4.6 P.T.Z Control Configuration



Click and enter the following area:

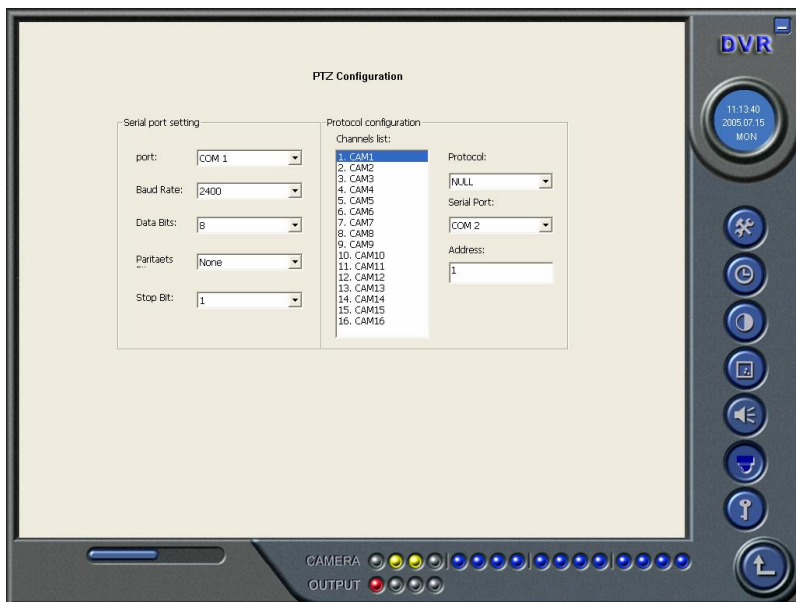


Figure4-21. PTZ Configuration Panel

4.6.1 Protocol Setup

Users can select different protocols, serial port number for P.T.Z devices.

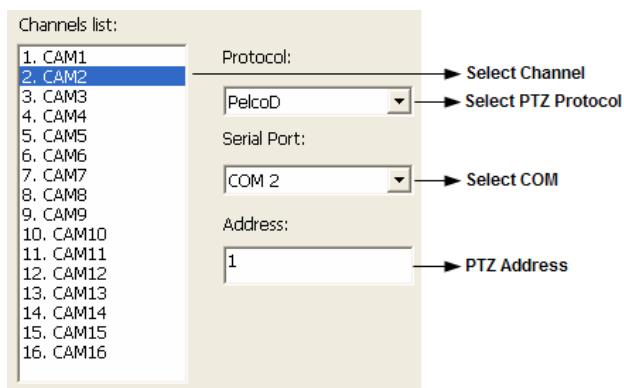


Figure4-22 P.T.Z Protocol Setup

1. Port
users can set serial port number.
2. Protocol
P.T.Z device communication protocol.
3. Address
P.T.Z device communication address.

4.6.2 Serial Ports Setup

Users should firstly enable the P.T.Z control function of a certain camera and select a port number in P.T.Z Protocol Setup (refer to Figure4-22), and then set corresponding parameters in the area below:

port:	COM 1
Baud Rate:	9600
Data bits:	8
Parity:	None
Stop bits:	1

Figure4-23 P.T.Z Serial Port Setup

1. Port
Users can set port number.
2. Baud Rate
Set P.T.Z device Baud Rate, default value is 9600.
3. Data Bits
Default value is 8.
4. Parity
Odd and even parity bit, default Null.
5. Stop Bits
Default value is 1.

NOTICE

Users should look into the P.T.Z device and get the Baud Rate, Protocol, and Address first, then set their values accordingly.

4.7 Users Configuration



Click  and access the following area:

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.

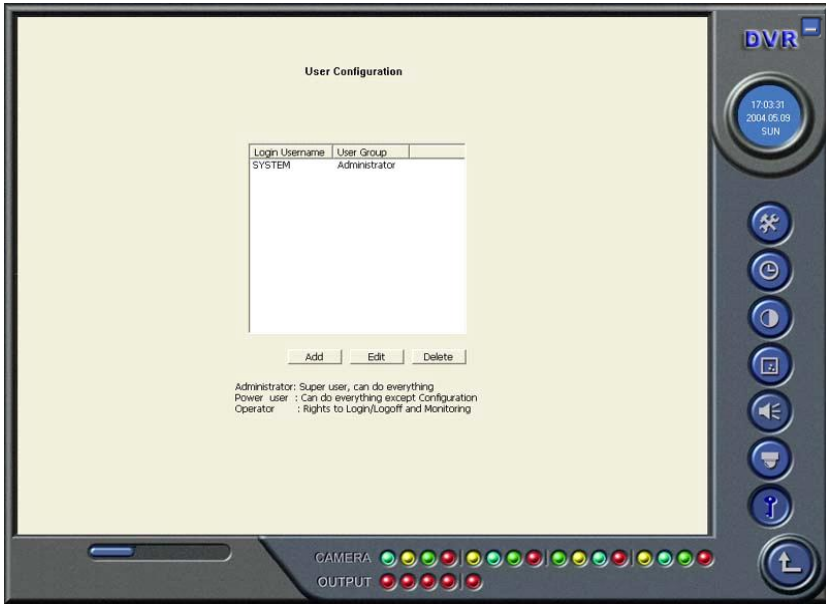


Figure4-24 User configuration

After installing the SuperDVR system, it will automatically create an administrator user of which user name is SYSTEM with no password. Users can use this username to log in the system and 'Add', 'Edit' or 'Delete' users' parameters.

4.7.1 Change User rights

Select a user in User Configuration area (refer to Figure4-24), and click 'Edit' and enter Edit User area, as below:

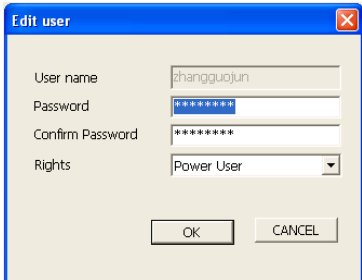


Figure4-25 User Password and Rights Edit

Users can edit user's password and rights here, but not the user name.

The system offers three kinds of rights:

- Administrator: this kind of user of the highest rights to change all the settings and playing back.
- Power user: this kind of user cannot access Basic Configuration and change settings, but has all the other rights of Administrator.
- Normal: this kind of user can only access SuperDVR main display interface (refer to Figure3-1)

NOTICE

Administrators can change Power users and Normal users' rights, but can't change other administrators' rights.

4.7.2 Add User

Click 'Add' in User Configuration (refer to Figure4-24), and access the following area:

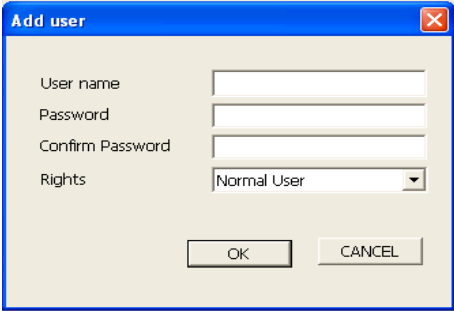
A dialog box titled "Add user" with a blue header bar and a red close button. It contains four input fields: "User name", "Password", "Confirm Password", and "Rights". The "Rights" field is a dropdown menu currently showing "Normal User". At the bottom are "OK" and "CANCEL" buttons.

Figure4-26 Add User

Input user name, password, confirm password and select user rights, and then click 'OK'.

4.7.3 Delete User

Select the user name in User Configuration (refer to Figure4-24), and click 'Delete', and confirm delete. See below:

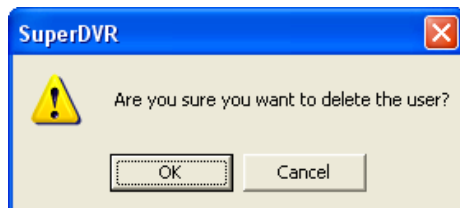


Figure4-27 Confirm Delete User

5 P.T.Z Control



Click  in the SuperDVR main display interface (refer to Figure3-1) and access to the following area:



Figure5-1 P.T.Z Control Interface

Users can control P.T.Z devices by the function buttons on the right side, see as below:



Figure5-2 P.T.Z Control Function Buttons Panel

In the upper circle, there are five function buttons, i.e. upward button, downward button, leftward button, rightward button and stop button. The other buttons are Focus buttons (+ and -), Zoom buttons (+ and -), Iris buttons (+

and -). Click  and  to increase and decrease the corresponding values.

When users need to utilize P.T.Z control, first enter P.T.Z Control Interface (refer to Figure5-1), and click the corresponding channel (users can see a red fringe around the channel), then users can begin to control the enabled P.T.Z control enabled camera.

NOTICE

After pressing left mouse button on any function button in P.T.Z Control Function Buttons Panel (refer to Figure5-2), PTZ device starts moving, when user releases it, PTZ device stops moving.

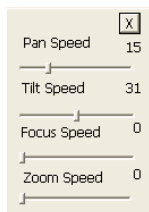


Figure5-3 Speed Adjustment

Users can select different Pan speed, Tilt speed, Focus speed and Zoom speed for P.T.Z devices.

1. Pan Speed
Set horizontal rotating speed.
2. Tilt Speed
Set vertical rotating speed.
3. Focus Speed
Set camera focus speed.
4. Zoom Speed
Set zoom in/ zoom out speed.



Click  and a pop-up window will appear; users can choose different preset or group set.

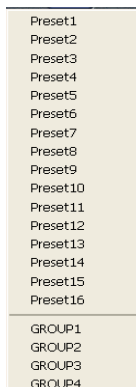


Figure5-4 Preset and Group Select



Click  to set Preset point and change Preset point name. Every Group includes multiple Preset points. In case users select preset1, preset2 and preset3 for group1, preset1, preset2 and preset3 will be automatically accessed in sequence after users select group1 for auto scout.

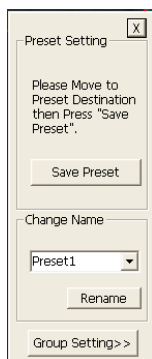


Figure5-5 Preset

Click **Group Setting>>**, a pop-pup window as following will appear:

Dwell: users can set the dwell time of a page here.

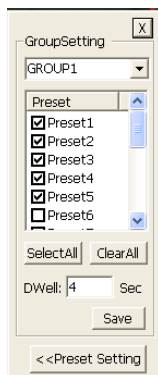


Figure5-6 Group Configuration

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

6

Record Search & Playing Back



Click  in the SuperDVR Main Display Interface (refer to Figure3-1) and access to the following areas:

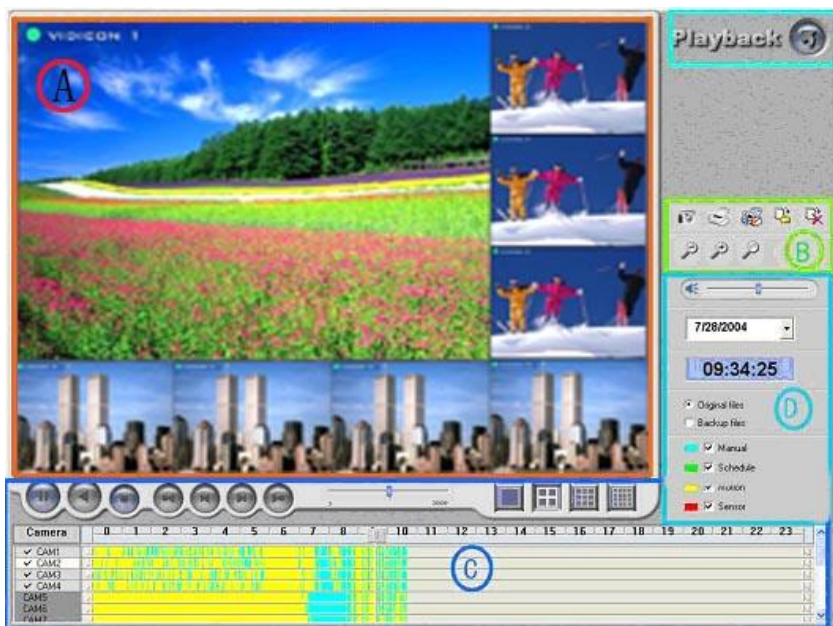


Figure6-1 Search and playing Back Interface

This interface is divided into 4 parts, i.e. record search area, record playing back area, record playing area and other functions area.



Press  and return to the live surveillance status.

6.1 Record Search

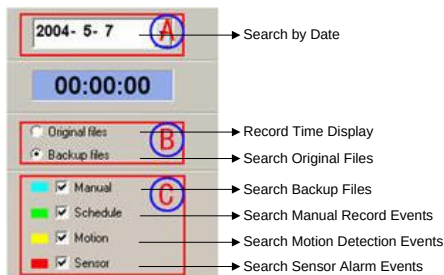


Figure6-2 Record Search Area

A, B and C marks the areas of three search methods.

- **A:** Search by date (range from Jan 1st, 1971 till now)
- **B:** Search in backup file and original file
- **C:** Search by record mode. This is useful when user wants to look through some important events.

Users can select one or above of the three searching methods to search for needed record file.

6.2 Playing Back and Control

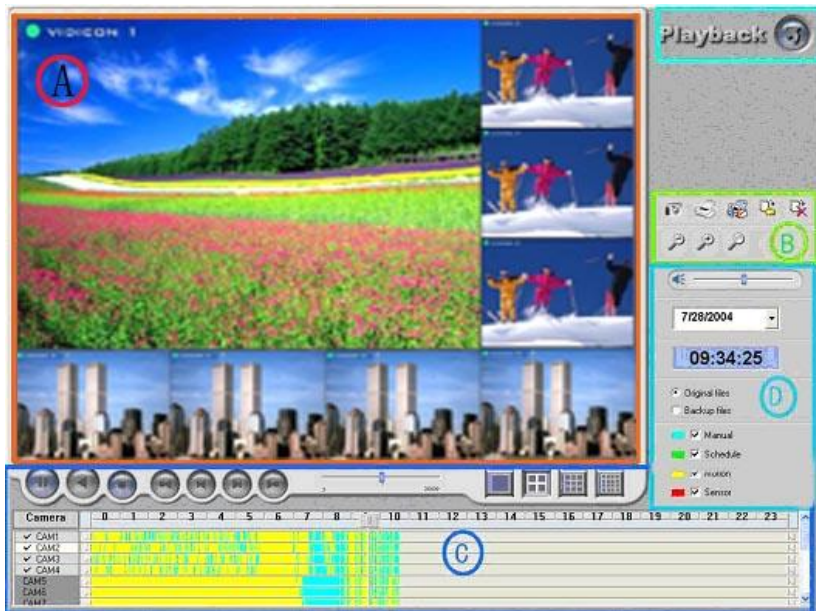


Figure6-3 Playing Back and Control

Explain of the button function:

-  : Play / Pause
-  : Stop
-  : Play backwards. This button is valid when playing back by single channel
-  : Previous Section. This button is valid when playing back by single channel
-  : Next Section. This button is valid when playing back by single

channel

-  : Previous Frame. This button is valid when playing back by single channel playing back pause mode
 -  : Next Frame. This button is valid when playing back by single channel playing back pause mode
- Users can select suitable play speed in the area as below:



Figure6-4 Play Speed Controller

The following area shows the record files of different channels:

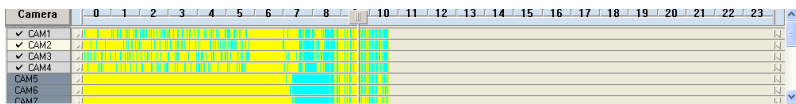


Figure6-5 Record Files Browser

The upper bar shows the hours in a whole day. Click the bar, and it will be magnified 10 times, therefore users can see the detailed time marks. When searching for a certain section of the file, users can draw the scrolling-bar to the area that most likely contains the needed section. If necessary, click the bar once and see the magnified time marks for precise search.

The left side shows the available channels. When a certain channel has been selected for playing back, the background color will be highlighted, or it's dark gray, and a tick sign will appear beside the channel title.

The main area at the center gives details of the record files. Different colors of the bar show different kinds of record modes of the files. The following are the definitions of the color bars:

-  Blue: Manual Record Events
-  Green: Schedule Record Events
-  Yellow: Motion Detection Record Events
-  Red: Sensor Alarm Record Events

Click  to play selected record files. The system offers 1Ch, 4CH, 9CH and 16CH playing back modes. The following is multiple channels playing back control area:



Figure6-6 Multiple Channels Playing Back Control

The system default playing back mode is one channel. That's Camera1. In case users need to change to other channels, then click  and the following channel configuration window will appear, as below:

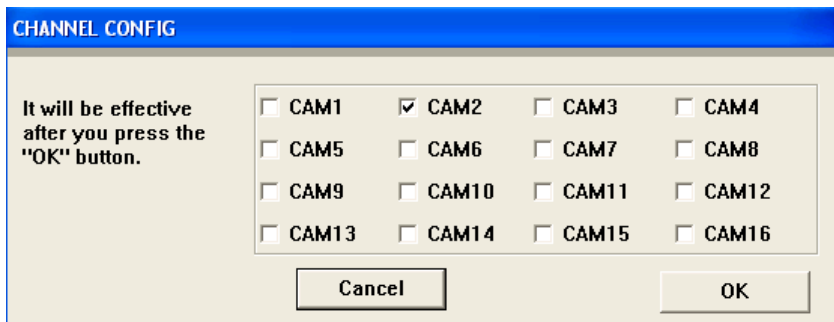


Figure6-7 Channel Configuration Dialog for Single Channel Playing Back Mode

NOTICE

Take 16CH card for example. But in fact, 4 pieces of 4CH cards can make the same effect.

Users can select one channel from all the available channels for playing back. In case user needs to play back 4 channels at the same time, then click



, and the following channel configuration window will appear, as below:

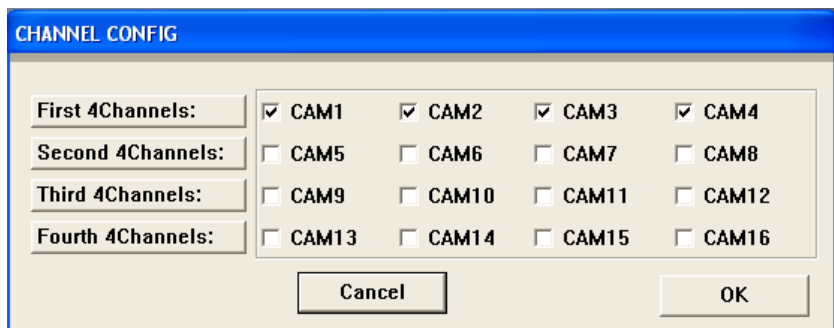


Figure6-8 Channel Configuration Dialog for 4-channel Playing Back Mode

Users can select any four channels from all the available channels for playing

back.

The system offers quick select methods for users. For example: by selecting **'Third 4 Channels'** Camera9, Camera10, Camera11, and Camera12 will be quickly selected simultaneously.

In case user need to play back 9 channels at the same time, then click



, and the following channel configuration window will appear, as below:

First 9Channels:	☒ CAM1	☒ CAM2	☒ CAM3	☒ CAM4
	☒ CAM5	☒ CAM6	☒ CAM7	☒ CAM8
Second 9Channels:	☒ CAM9	☐ CAM10	☐ CAM11	☐ CAM12
	☐ CAM13	☐ CAM14	☐ CAM15	☐ CAM16

Cancel OK

Figure6-9 Channel Configuration Dialog for 9-channel Playing Back Mode

Users can select any 9 channels from all the available channels for playing back. Users can also use the quick select methods by the system.

In case user needs to play back 16 channels at the same time, then click



, and the following channel configuration window will appear, as below:

Select All	☒ CAM1	☒ CAM2	☒ CAM3	☒ CAM4
Clear All	☒ CAM5	☒ CAM6	☒ CAM7	☒ CAM8
Invert Selection	☒ CAM9	☒ CAM10	☒ CAM11	☒ CAM12
	☒ CAM13	☒ CAM14	☒ CAM15	☒ CAM16

Cancel OK

Figure6-10 Channel Configuration Dialog for 16-channel Playing Back Mode

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

Then click 'OK' to play back.

TIPS

Click any channel and magnify it to see the single channel. Click again to return to the former playing back mode.

6.3 Other Functions

6.3.1 Record File Backup

Click  and enter the following menu:

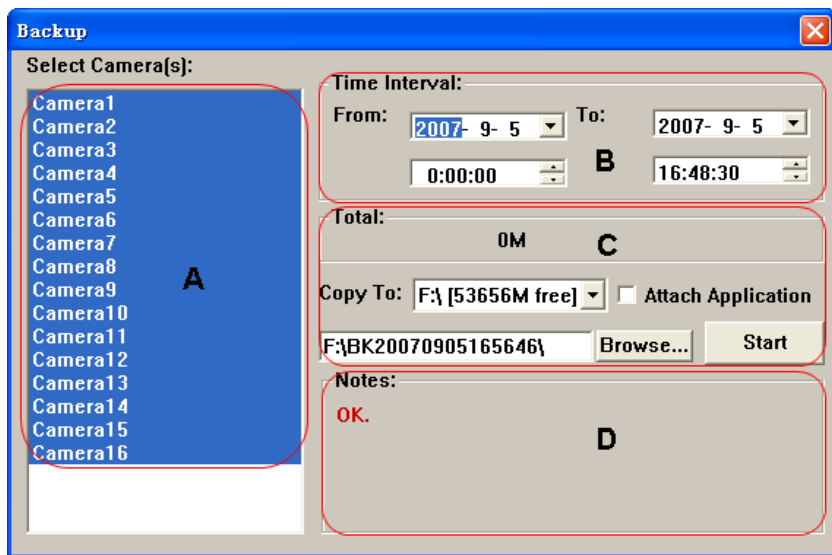


Figure6-11 Recorded Files Backup

Users can select corresponding cameras and copy the record files to another path in this area. This is the file backup function of the system.

The interface is divided into four areas:

- A: Camera Selection Area
- B: Time and Date Selection Area
- C: Operation Area
- D: Information Area

In A area, users can select one or more cameras.

In B area, users can set start time/date and end time/date, and then backup

the files recorded by channels selected in A area by the time interval.

In C area, users can set backup path.

Click '**Start**' to backup files.

6.3.2 Delete Record Files

Click  and the following window will appear:

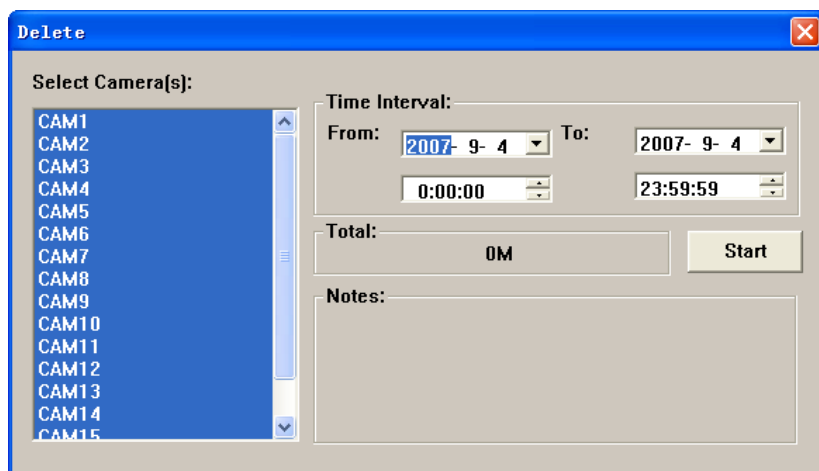


Figure6-12 Delete Recorded Files

Users first select the channel on the left side, and then select start time/date and end time/date of the record files, click '**Start**' to delete files.

6.3.3 Capture Pictures

The definitions of the function buttons are as below:



: Capture picture



: Print setup



: Print captured picture

NOTICE

This  function is valid only in playback pause mode of single channel.

When in single channel playing back pause mode, automatically the following color control panel (Figure6-13) will appear, by which user can make color

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

rectification for the present channel, including brightness, contrast, saturation and hue, and press **'Default'** to recover to the original settings.

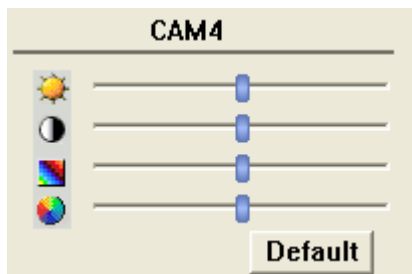


Figure6-13 Color Control Panel

When in the single channel playing back pause mode, click  and the following window will appear as below:

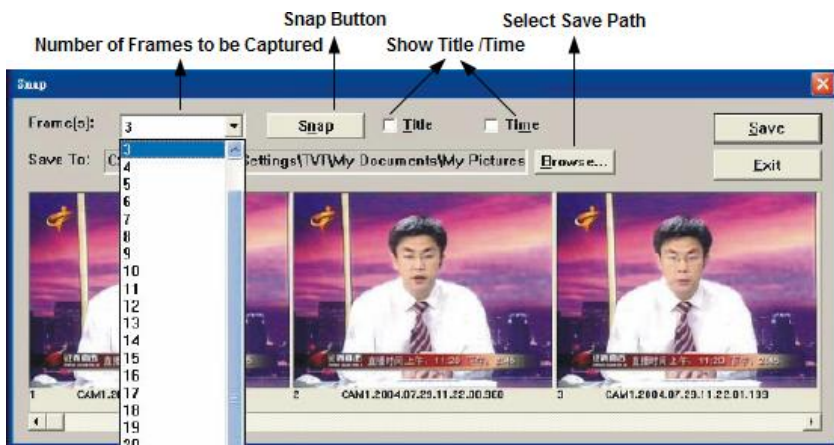


Figure6-14 Capture Multiple Images in Sequence

Select path and click **'Save'** to save the picture. User can also print the images that have been captured.

Click  and make corresponding print setup as below:

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.

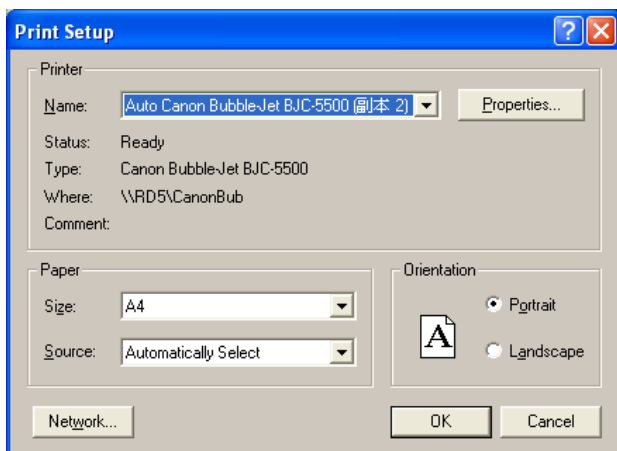


Figure6-15 Print Setup

Click  users can have print preview as below:

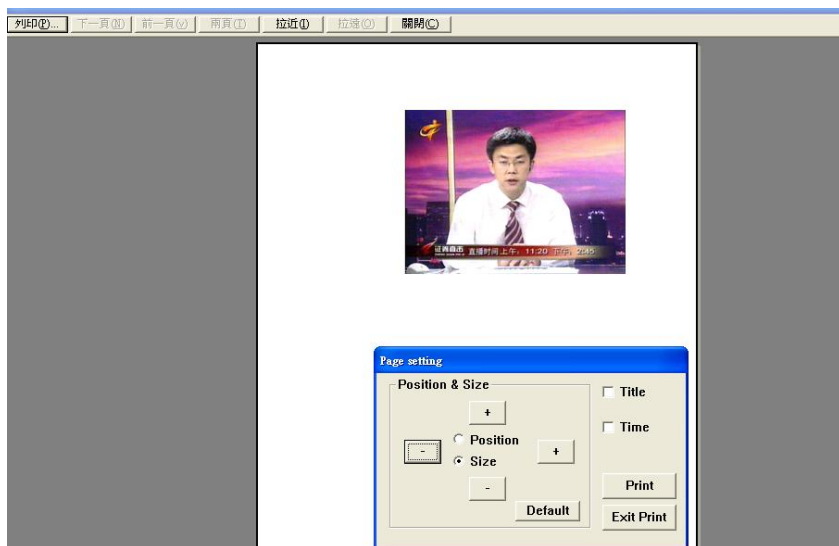


Figure6-16 Print Preview

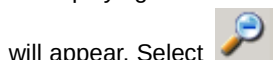
Select ☐ Position and then click  or  to move the picture upward, downward, leftward and rightward. Select ☒ Size and then click  and

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

 to zoom in and out the image. Press **Default** return to the original settings. Press 'Print' in the print preview window, users can print the image directly.

6.3.4 Image Zoom in/out

When in single channel playing back state, the zoom control icons



will appear. Select  and click on the channel will zoom out the image. By clicking continuously, the image will be zoomed out

continuously. Select  and do the some operations to get the opposite

effect. Click  and recover the original size. Take the following three pictures for example.

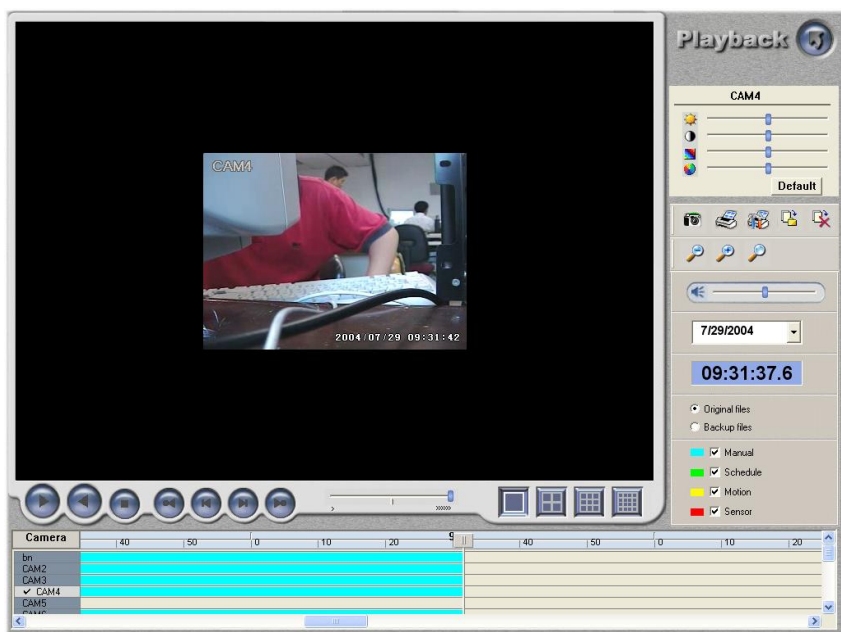


Figure6-17 Example: original size

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.

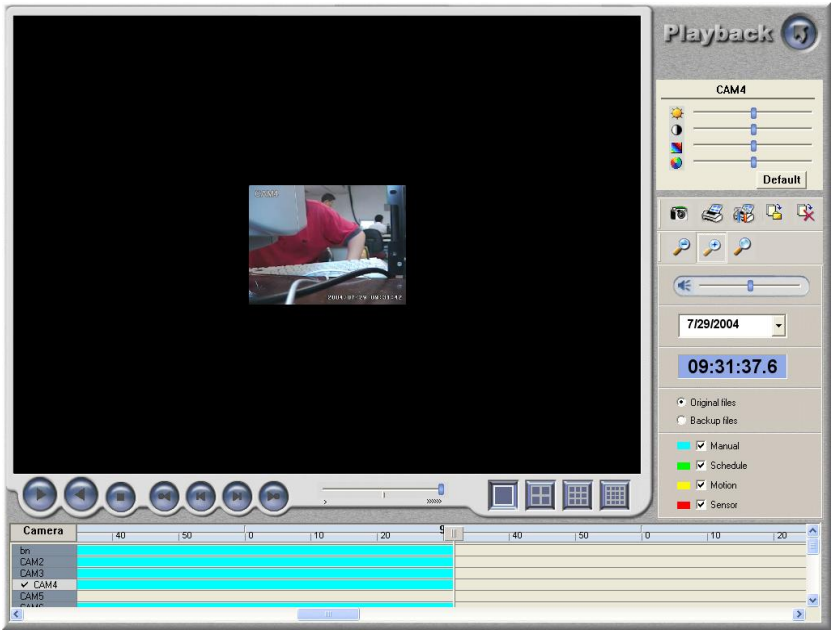


Figure6-18 Example: zoomed out

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

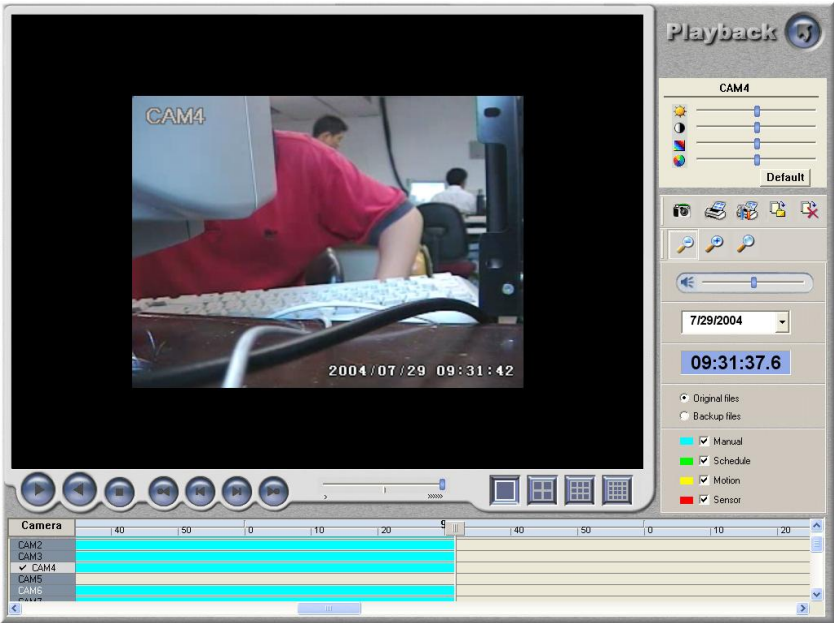


Figure6-19 Example: zoomed in

7

Remote Surveillance & Playback

7.1 Remote Live Surveillance

Our TD series surveillance system supports Remote Surveillance through LAN, Internet and Intranet. Simply enable web cam function of the system on a computer which is connected to Internet, and the computer system will become an Internet web cam server. On any other computer that connects to Internet or the same LAN network, input the SuperDVR server address in IE browser, the end users can get high quality real time image from the server and also control the P.T.Z devices.

7.1.1 Remote Surveillance Server Configuration

Users should firstly enable the Web Camera Services in Basic Configuration (refer to Figure4-1) and set other settings as below:

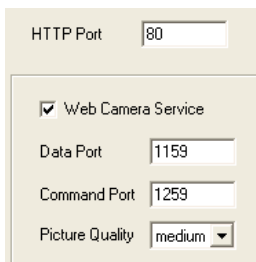
A screenshot of a 'WebCam Server Configuration' dialog box. It has a light beige background. At the top, 'HTTP Port' is labeled next to a text box containing '80'. Below this is a section with a checked checkbox labeled 'Web Camera Service'. Underneath the checkbox are three more settings: 'Data Port' with a text box containing '1159', 'Command Port' with a text box containing '1259', and 'Picture Quality' with a dropdown menu showing 'medium'.

Figure7-1 WebCam Server Configuration

1. HTTP Port
Web service & download service port, default value is 80.
2. Data Port
Data transmission port, default value is 1159.
3. Command Port
Control command port, default value is 1259.

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.

4. Picture Quality
Default value is higher.

7.1.2 Remote Surveillance Client-side Setup

On the client-side, users should firstly install the WebCam program. And the following is the detailed information.

STEP1 : Input the WebCam server IP address in Internet Explorer and the following page appears:

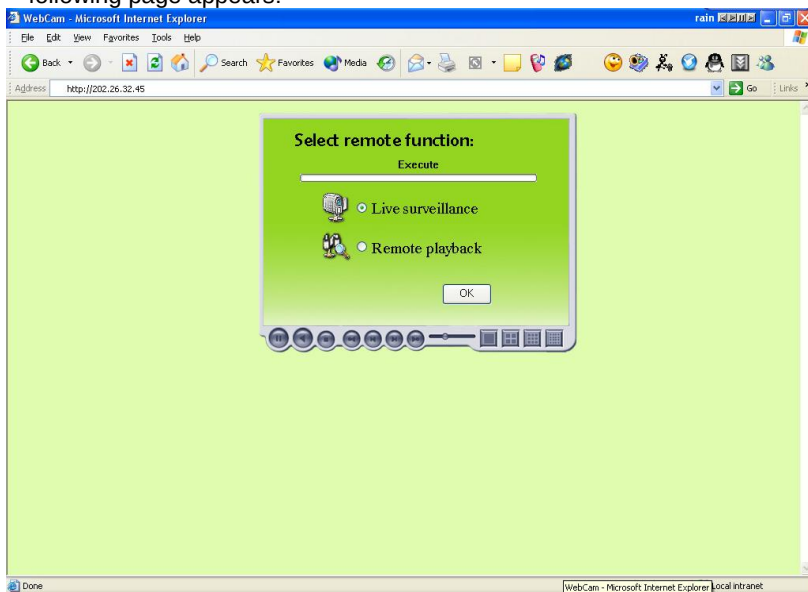


Figure7-2 Remote Surveillance and Playback Services Selection

- Live Surveillance
This option is for users to see remote live view.
- Remote Playback
This option is for users to play back recorded files.

NOTICE

In case the HTTP port setting is not 80 (80 is the default setting, commonly use), and when input the server IP address, users should add the port number after the IP address. For example, the server IP address is 211.148.96.234, and the port number is 81, then users should input **http://211.148.96.234:81**.

STEP2 : Select Live Surveillance, and click 'OK' to install Remote

Surveillance client-side program as below. In the next chapter, we will learn more about Remote Playing back.

When connecting to the server for the first time, then the following window will pop-up:

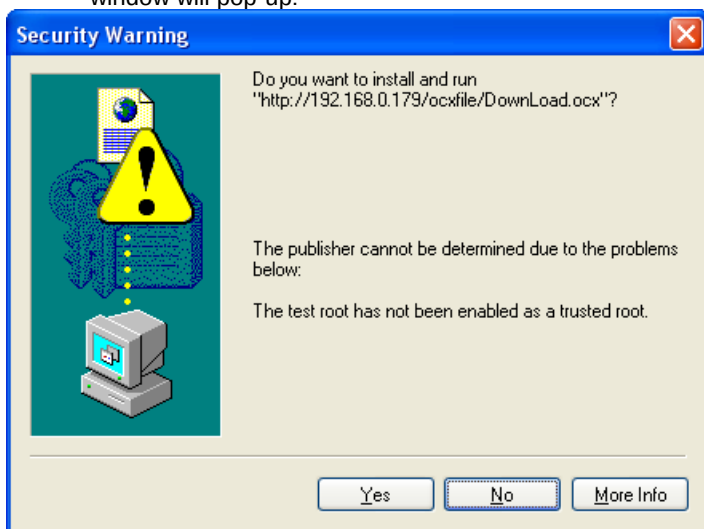


Figure7-3 Inquiry for Installing WebCam Downloading Component

NOTICE

If users have already installed client-side program before and SuperDVR version has not been changed on the server, after inputting server address in IE browser, Figure7-9 will come out without downloading or installing WebCam.

STEP3 : Click 'Yes' to begin initialization.

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

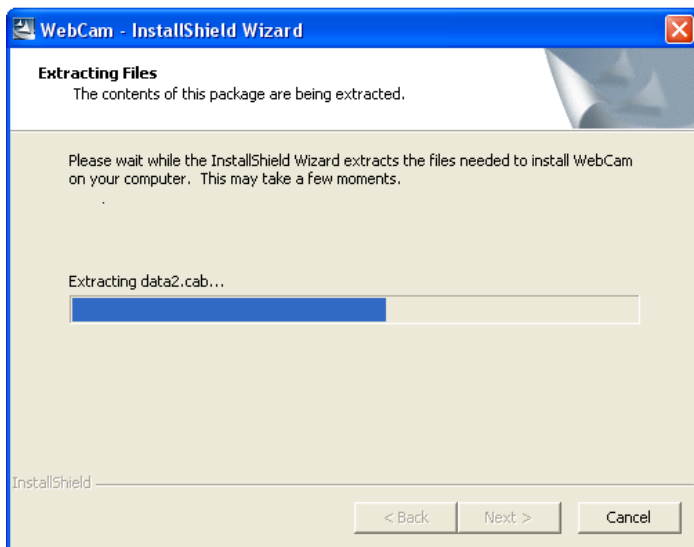


Figure7-4 WebCam Client-side Driver Initializing

STEP4 : After initialization has been completed, WebCam will be installed automatically.



Figure7-5 WebCam Installation

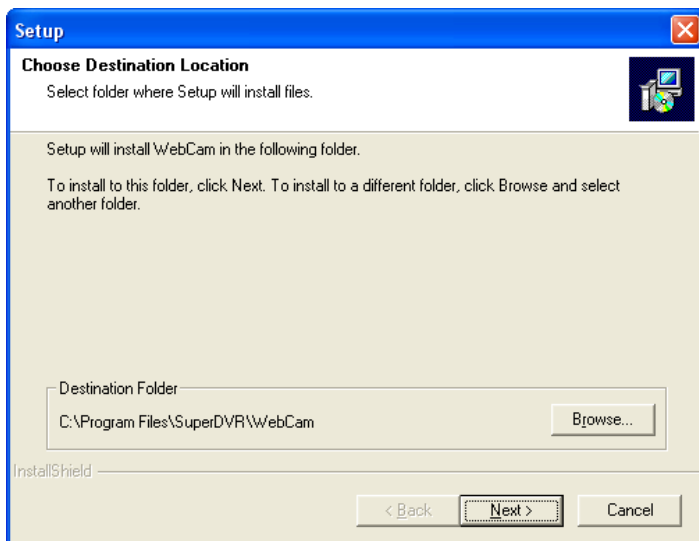


Figure7-6 Default Install Path

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.

STEP5 : Users can choose path by clicking '**Browse**'. Click '**Next**' to continue:

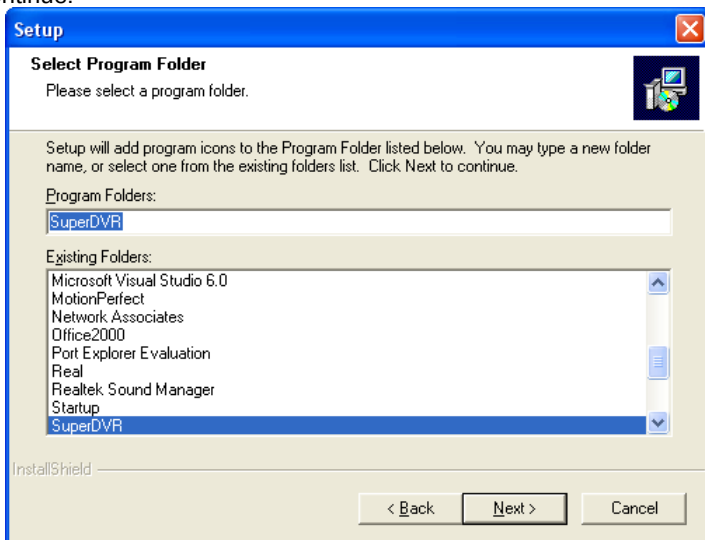


Figure7-7 Register Program Folder Name

STEP6 : Click '**Next**' after input the folder name or select the default name, and then '**Finish**' installation as below:

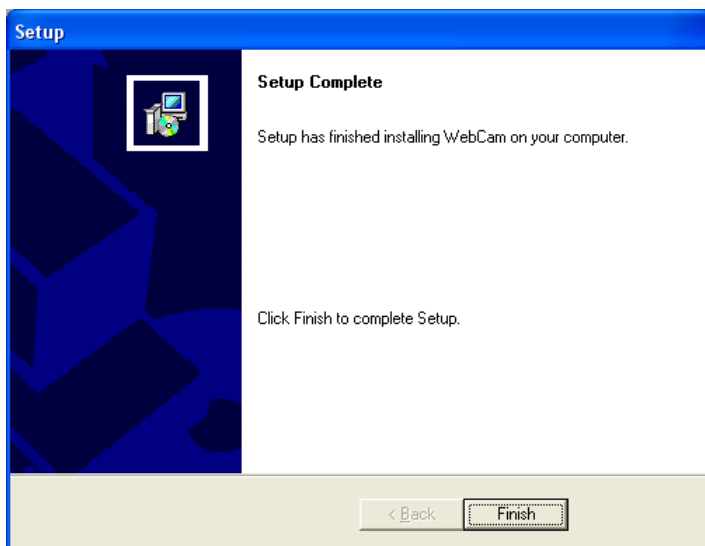


Figure7-8 Installation Success

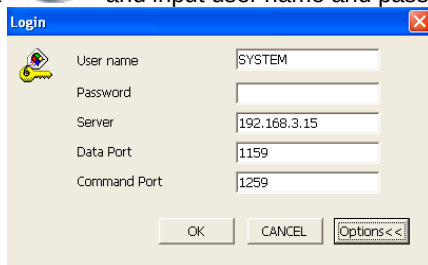
STEP7 : Then the WebCam main interface will appear as below:



Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

Figure7-9 WebCam Main Interface

STEP8 : Click  and input user name and password, as below:



The image shows a 'Login' dialog box with a blue title bar and a close button (X). It contains five input fields: 'User name' (containing 'SYSTEM'), 'Password' (empty), 'Server' (containing '192.168.3.15'), 'Data Port' (containing '1159'), and 'Command Port' (containing '1259'). There is a key icon next to the 'User name' field. At the bottom, there are three buttons: 'OK', 'CANCEL', and 'Options < <'. The 'Options' button is highlighted with a yellow border.

Figure7-10 Login WebCam

STEP9 : Click 'Options' and enter the advanced setting area. Users can modify default Server IP、Data Port and Command Port .

NOTICE

The default User name is SYSTEM without password. Users can set user name and password at the server end (refer to Figure4-25).

After logging into server, you will get the first channel video from server, and you can adjust screen mode just like SuperDVR, the bellow is the WebCam surveillance mode interface.



Figure7-11 WebCam Surveillance State

Alarm state monitor and PTZ control are all same as SuperDVR, we would not need to give detail explanation here.

7.2 Remote Playback

7.2.1 Remote Playback Server Configuration

For using our powerful remote playing back function, users should first enable Web Cam service and Remote Playing back Service in Basic Configuration (refer to Figure4-1 and Figure7-12).



Figure7-12 Remote Playback Service Configuration

RPB Port: the default value is 1161.

Once the remote playing back service has been enabled, there will be an icon on the taskbar to remind users the service has been activated.

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.



Figure7-13 Remote Playback Service Activated

7.2.2 Remote Playback Client-side Setup

Users should also first download and install playing back program. This chapter will guide users how to make it.

STEP1 : Input server address in IE browser, and the following interface appears:

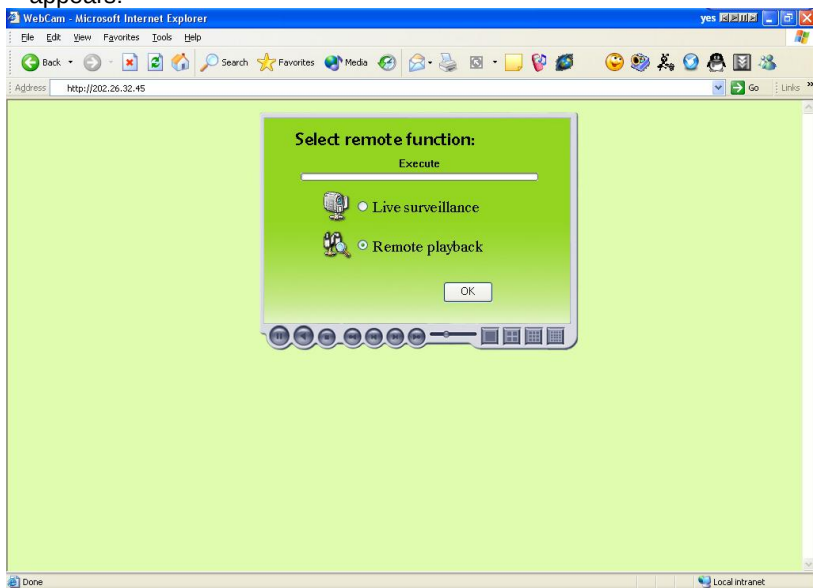


Figure7-14 Remote Surveillance and Playback Services Selection

STEP2 : Select 'Remote Playback' and click 'OK'.

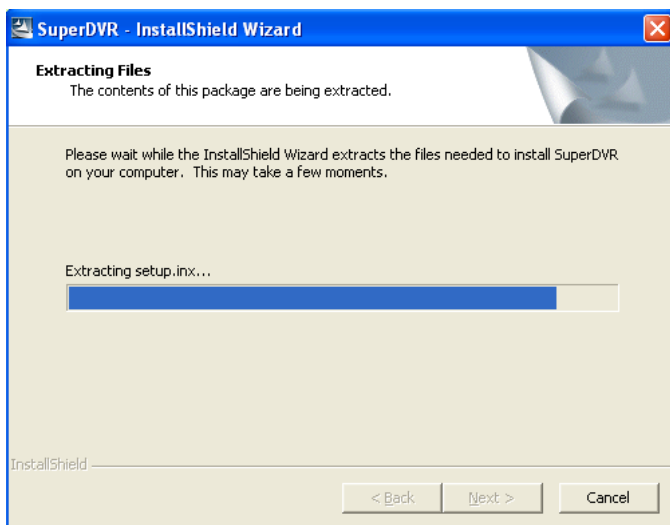


Figure7-15 Installing Remote Playback Program

NOTICE

In case users have already installed the remote playing back program before and SuperDVR version has not been changed, there is no need to download and install it again, it will go to Figure7-20 directly.

STEP3 : After initialization has been completed, users need to install the program. First select installation path as below:

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

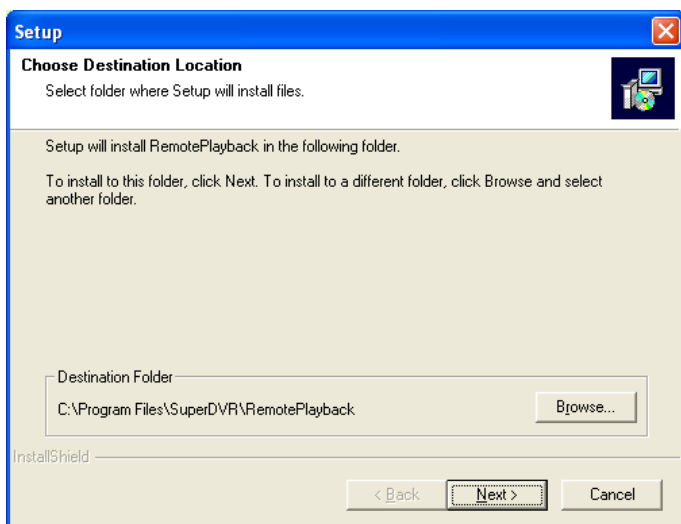


Figure7-16 Default Install Path

STEP4 : Users can set another path by clicking '**Browse**'. Click '**Next**' to continue:

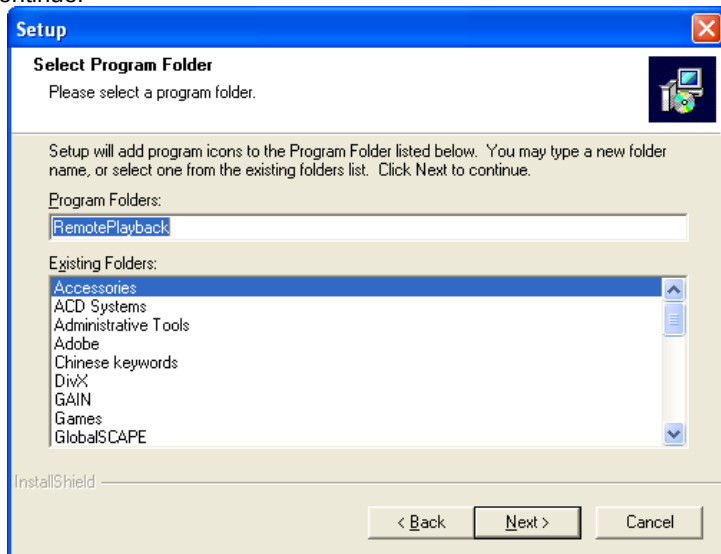


Figure7-17 Register Program Folder Name

STEP5 : Click '**Next**' after inputting the folder name or selecting the default name, then the following figure appears:

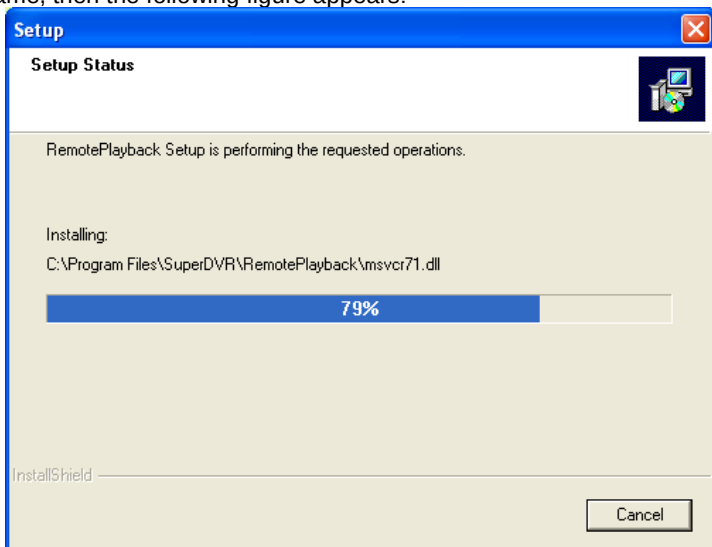
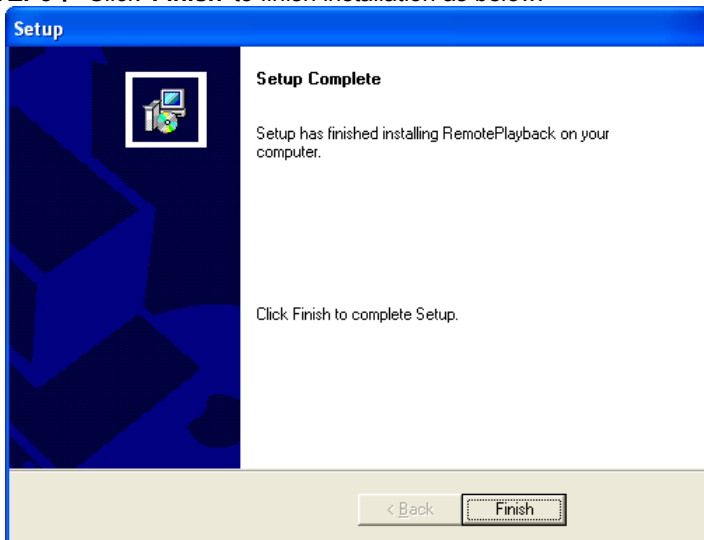


Figure7-18 Playback Program Installation Process Rate

STEP6 : Click '**Finish**' to finish installation as below:



Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

Figure7-19 Installation Success

Then the playing back client-side main interface will appear as below:



Figure7-20 Remote Playback Client-side Main Interface

Corresponding Explanations:



- Log in
- Setup
- Play
- Begin / Stop record
- Accelerate playing speed



- Minimum
- Exit
- Pause
- Slow down playing speed
- Play at the original speed

7.2.3 Remote Playback Configuration and Control

Setup

Before logging in the server, first click  and make corresponding settings.

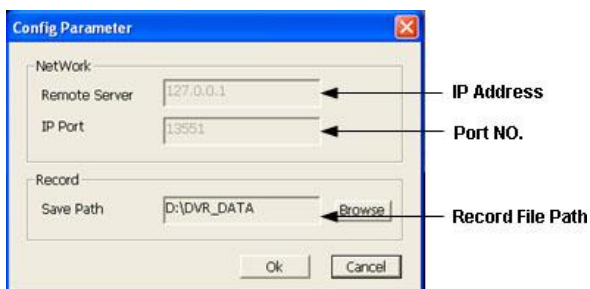


Figure7-21 Client-side Configuration

Log in Remote Playback System

Click  after making up certain configurations, and the following window appears.

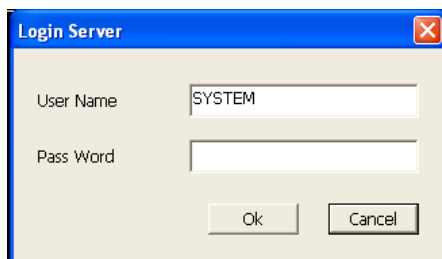


Figure7-22 Login Remote Playback System

Input the right user name and password and enter the remote playing back main interface as below:

NOTICE

The default User name is SYSTEM with no password. Users can set user name and password at the server end (refer to Figure4-25).

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.



Figure7-23 Remote Playback Main Interface

Control Playback

- 1. Select Time Period for Playback
Once login the system, the setup button and login button are disabled. Click and the following window appear.

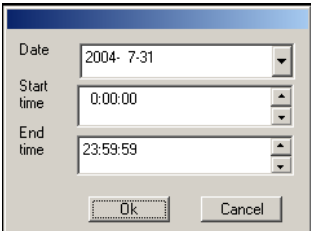
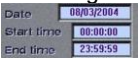


Figure7-24 Select Date/Time Period for Playback

Select the date and time, then click 'OK' to save the setting and return to the main interface. Click 'Cancel' to give up setting. The selected time / date will appear at the left bottom of the screen.

2. Play Control

Click  and begin to play the recorded files. Press  to pause. Users can draw the lever as below to select time to play.



Figure7-25 Time Control Lever

The following area is for users to control the play speed.



Figure7-26 Play Speed Control Module

Remote Record

Click  and begin to record remotely. And the icon changes to . Click it again and stop recording. Users can select save path and compression format before logging in the system.

7.3 Mobile Surveillance

7.3.1 Introduction to Mobile Surveillance

In SuperDVR system, the mobile surveillance can be realized by connecting the mobile phone to the system. For time being, the function is supported by Windows Mobile system and Symbian Series 60 Developer Platform 2.0 intelligent mobile phone system.

So far, the types of phones on which the function has been tested are shown as below table.

Parameter Brand	TYPE	SYSTEM
DOPOD	Dopod 696	Windows Mobile 2003
	Dopod 818	Windows Mobile 2003
	Dopod 828+	Windows Mobile 2003
	Dopod 838 Pro(3G)	Windows Mobile 5.0
O2	O2 Xda II	Windows Mobile 2003
	O2 Xda Atom(3G)	Windows Mobile 5.0
	O2 Xda Mini	Windows Mobile 2003
NOKIA	Nokia N70	S60 OS8.1a
	Nokia N73	S60 OS9.1
	Nokia N80	S60 OS9.1
	Nokia N-Gage	S60 OS6.1
	Nokia 3230	S60 OS7.0s
	Nokia 3250	S60 OS9.1
NOKIA	Nokia 6260	S60 OS7.0s
	Nokia 6630	S60 OS8.0s

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

Parameter Brand	TYPE	SYSTEM
NOKIA	Nokia 6680	S60 OS8.0s
	Nokia 7610	S60 OS7.0s
ASUS	ASUS P525	Windows Mobile 2003

Table7-1 Mobile Phone of Supporting Mobile Surveillance

7.3.2 Client Configuration of Windows Mobile

Server configuration on SuperDVR needs to be set before the function on phone is activated. Please refer to Section '7.1 Remote Live Surveillance'.

STEP1 : Firstly activate the network access on mobile phone and then run 'Internet Explorer' after the server configuration has been done. Input the server's address and the connection is built up shown as below:

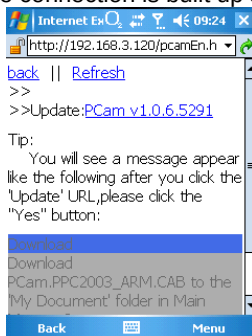


Figure7-27 Connected to Server

STEP2 : Click 'PCam v1.0.6.5291'. A dialog box pops up:

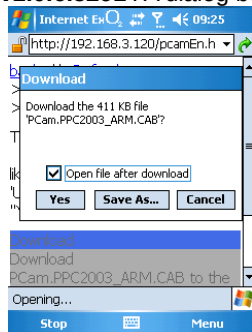


Figure7-28 Download Dialog Box

STEP3 : Please click 'Yes' to start installing:

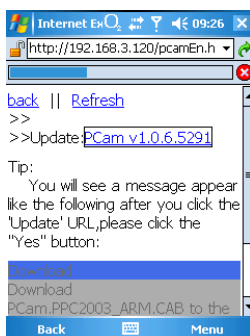


Figure7-29 Download Status Information

STEP4 : PCam will be opened after the download is finished:

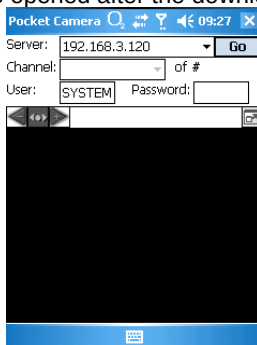


Figure7-30 Main Layout of PCam

STEP5 : Input the server's address, username and password respectively in the columns of 'Server', 'User' and 'Password' and click 'Go' to log on the server. Successful log on information appears if the server address, username and password are all correct.

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.

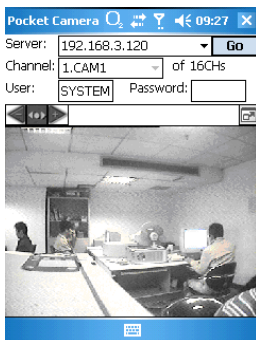


Figure7-31 Log on System Successfully

STEP6 : Channel one is the default displaying channel after log on successfully. Changing channel can be approached by selecting the channel in rolling-down menu of '**Channel**':

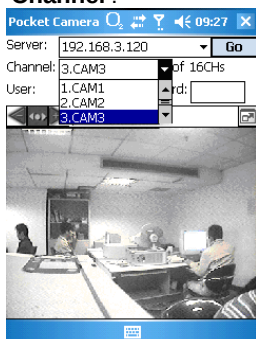


Figure7-32 Selecting Channel

STEP7 : Click '**Stop**' to disconnect the communication with the server.

7.3.3 Client Configuration of Symbian 60

Server configuration on SuperDVR needs to be set before the function on phone is activated. Please refer to Section '7.1 Remote Live Surveillance'.

STEP1 : Firstly enable the network access on mobile phone and then run Web browser after the server configuration has been done.

Error! Use the Home tab to apply
标题 1 to the text that you want to
appear here. Error! Use the Home
tab to apply 标题 1 to the text that
you want to appear here.



Figure7-33 Open Web Browser

STEP2 : Input the server address in a new-built bookmark. Click this bookmark to connect to the server.

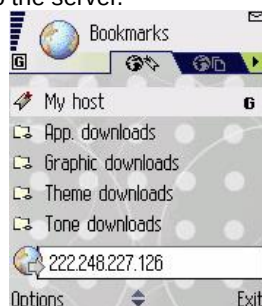


Figure7-34 Build a Bookmark



Figure7-35 Connect to Server

STEP3 : Click 'Install Package' to start downloading and a confirmation information window pops up after downloading is finished.

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here.



Figure7-36 Confirmation Information Window

STEP4 : Click 'Yes', System reminds of whether to install the 'Scam'.



Figure7-37 Installing Configuration Information

STEP5 : Click 'Yes' to start installing. A Scam shortcut icon appears on the system menu after the installation has been done.



Figure7-38 Scam Shortcut icon in System Menu

STEP6 : Run 'Scam' by selecting the icon:



Figure7-39 Main Layout of Scam

STEP7 : Enter the main menu by selecting 'Options'.



Figure7-40 Main Menu of Scam

STEP8 : Select 'Settings' to set the log-in information.



Figure7-41 Configure Login Information

STEP9 : Return the main menu after setting all parameters, and click 'Login' to build up the communication with server.

Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Error! Use the Home tab to apply 标题 1 to the text that you want to appear here. Differences among TD Series Card



Figure7-42 Connecting to Server

STEP10 : Log in successfully, the live mobile surveillance is shown as Figure7-43.

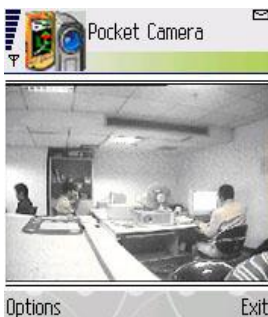


Figure7-43 Log in Successfully

Appendix1 Differences among TD Series Card

Card Item	TD 3004	TD 3008	TD 3016	TD 3116	TD 3216	TD 3316	TD 3101	TD 3104	TD 4104
Video Input	4	8	16	16	16	16	1	4	4
Audio In	PC Audio	PC Audio	PC Audio	PC Audio	PC Audio	16	1	2	4
Alarm Output	1	0	16	16	0	0	0	0	0
Alarm In	4	0	16	16	0	0	0	0	0
Relay Output	1	0	1	1	1	0	N	N	N
Watch Dog	N	Y	Y	Y	Y	N	N	N	N
Call Monitor	N	N	Y	N	Y	Y	N	N	N
Manual Gain	Y	Y	Y	N	N	Y	N	N	N

NOTICE

By adding Alarm Card, TD3316、TD4104 support 16 channels Alarm in、4 channels Alarm output and 1 channel Relay Output.

Appendix2 Frequently Asked Questions

Appendix 2.1 Installation

Appendix 2.1.1 Cannot Install the SuperDVR Driver

Possible causes:

- TD series capture card hasn't been installed. Before installing driver, users should install capture card hardware in the PCI slot in the computer case.
- TD series capture card hasn't been installed correctly. Please unplug the card and install it again or change to another PCI slot.
- Not compatible with PC hardware.

Appendix 2.1.2 Why cannot run SuperDVR at the windows 2003 operate system?

Enabled Hardware Acceleration and DirectX Acceleration:

- Hardware Acceleration

STEP1 : Right-click the mouse on the desktop, then select 'Properties→Setting→Advanced→Trouble Shooting'.

STEP2 : Drag the acceleration bar to 'Full'.

STEP3 : Click 'OK' to save the modification.

- DirectX Acceleration

STEP1 : Click 'Start → Run', it will pop up 'Run' window.

STEP2 : Input 'dxdiag' and click 'OK'.

STEP3 : Select 'Yes' in the pop-up dialog box, it will pop up 'DirectX Tools' window.

STEP4 : Select 'Display' option.

STEP5 : Click the three buttons-'DirectDraw', 'Direct3D' and 'AGP Texture'.

STEP6 : Click 'Exit' to exit the 'Directx Tools' window.

Appendix 2.1.3 'Unspecified error' in the end of installation

Possible causes as below:

- On English version Window XP system, by using driver below SuperDVR3.0.2, the unspecified error will appear, as the databases are not

well compatible.

- Microsoft Windows system database has been destroyed. Reinstall windows system or try to install SuperDVR driver above SuperDVR3.1.1 to solve the problem.
- Relative Windows support files has been lost or been destroyed, need to reinstall window system, or try to install SuperDVR driver above SuperDVR3.1.1 to solve the problem.

Appendix 2.1.4 Can't find TD series Devices in Device Manager

Enter the Device Manager and cannot find corresponding TD series Devices, the possible cause may be as below:

- Windows system error. Restart computer.
- TD series card error. Change for a valid one.
- Install SuperDVR.

Appendix 2.2 How to Use SuperDVR

Appendix 2.2.1 Meanings of the indicator lights

- Grey- Normal state
- Red - Sensor alarm
- Yellow - Motion detection alarm
- Blue - Video loss
- Bottle Green - Manual record state
- Reseda - Schedule record state

NOTICE

Users can refer to Figure3-6 to learn more.

Appendix 2.2.2 How does the different record mode work?

Users can set more than one record modes in Record setup (refer to Figure3-5), but actually, there is only one valid record mode for recording.

The priority order of the record modes is: Sensor Alarm Record > Motion Detection Record > Manual Record > Schedule Record

Appendix 2.2.3 How to set recycling record mode on the system?

Select 'Recycle' in basic configuration, refer to Figure4-1.

Users can select multiple HDD partitions to save record files. It won't cover former files until all the partitions' available storage spaces are less than 100MB.

In case users haven't enabled recycling record mode and the partitions' storage spaces are less than 100MB, the alarm will ring and the HDD usage

indicator will turn red.

TIPS

It is recommended that install SuperDVR into the partition installed with windows system (normally C:), and save record files in HDD partition D: .

Appendix 2.2.4 How to set auto reboot function?

In case Microsoft Windows system continuously runs for a couple of days, the system may become unstable, therefore it's suggested to restart the computer every few of days.

In the basic configuration (refer to Figure4-1), input Windows user name and password (It is not SuperDVR user name and password), and select time interval, then the Windows system will automatically restart according to the set time.

In case the Windows system closed abnormally, i.e. power supply is cut off, and when computer reboot next time, SuperDVR system will automatically restart, and keep the settings as before.

TIPS

Users do not need enable auto reboot function, but it's suggested to input the Windows user name and password in the relative area, therefore when meeting abnormal system exit, users don't need to be troubled to input Windows and SuperDVR user names and passwords.

Appendix 2.2.5 How to quickly use the schedule record function?

Press 'Shift' or 'Ctrl' key, and draw the cursor in corresponding areas to make schedules for multiple channels.

Appendix 2.2.6 What are the byte rates for different image qualities from highest to normal?

When on PAL system and the frame rate is 25 fps, bit rate for the highest image quality is about 120K Byte/s, and for the lowest image quality is about 30K Byte/s.

Appendix 2.2.7 The frame rate seems to be lower than what I set?

There is frame loss in image switch therefore the real record frame rate is about relatively lower than the theoretic value.

Appendix 2.2.8 Why I can't select more channels to backup?

Please draw the mouse in the channel selection area, or utilize Shift and Ctrl key for assistance.

Appendix 2.2.9 When should I select manual Gain Control?

In case the video signal is seriously decreasing, and the color images turn to black and white, use manual gain control may of be helpful.

Appendix 2.3 How to Use Network Function

Appendix 2.3.1 How to monitor on the client-side?

First enable '**Web cameras service**' in basic configuration (refer to Figure4-1).

Input the server Internet address in IE browser on the client-side, and the necessary web cam driver will be downloaded automatically, then users need to install the driver. After access the web cam main interface, click '**Login**' and input user name and password to log in the system. (Refer to '7 Remote Surveillance & Playback' to learn more)

Appendix 2.3.2 Why I can't download the client-side software?

The possible causes:

- The client-side computer hasn't properly connected to Internet or LAN.
- The server-end hasn't enabled '**Web Cameras Service**'.
- The default Http port is 80. It may be conflict with other Web servers, for example IIS. If true, please change another port.
- Windows XP SP2 will block the OCX download. You should enable 'Internet Option → Security Settings → Download unsigned ActiveX controls'.

Appendix 2.3.3 Why can't the server be configured at the client-side?

The possible causes:

- It can not be configured at the client-side, when the server is being configured at the server-end.
- Only the last configuration is valid if server different configuration are deployed simultaneously.

Appendix 2.3.4 Why I can't see the images?

The possible causes:

- The VGA card is too outdated.
- Have not installed newer DirectDraw.
- SuperDVR cannot run in Window 98 system.
- Data port or command port is conflicts with other network services.
- The user is connected to Internet through LAN, and the network administrator hasn't enabled corresponding data port or command port.
- The client-side has installed firewall software that may stop video transmission.
- MPEG4 codec has not been installed properly, please download new version WebCam.
- Slow network speed.

Appendix 2.3.5 What should I do if the Internet speed is quite slow?

The more channels opened, and the slower the video transmission speed,

therefore try to use one channel display mode when the network speed is slow.

TIPS

There may be some surplus channels that have no video input. Switching off the channels is of help to improve transmission speed. (Refer to '4.1 Basic Configuration' about switching on/off channels.)

Appendix 2.3.6 Why I can't start WebCam server or RPB server?

Possible causes:

Other software is using these ports. If so, please change WebCam ports configuration or stop other softwares.

Appendix 2.4 Other Questions

Appendix 2.4.1 Why computer display doesn't work, and why I can't access window system?

The capture card may not be well installed. Unplug the card and try it again.

NOTICE

Please unplug the power plug of the computer, so as to avoid damaging the motherboard chip set.

Appendix 2.4.2 Why I can't find the recorded files?

HDD space is not enough.

Appendix 2.4.3 Why the screens display is unstable with dithering and water-wave images?

Possible causes:

- Camera electrical power is not enough.
- There is external electromagnetic disturbance, or electrostatic disturbance of camera BNC connector (It's suggested to connect ground wire to the connector).
- User hasn't installed necessary VGA driver.
- VGA card problem. Try reinstalling the VGA card, or changing another VGA card.

Appendix 2.4.4 Why does it delay to play back, and it's slow to close and open the driver?

Possible causes:

- Windows system problem. Try to reboot the computer.

- There are too many recorded files or too many fragments on the HDD, therefore it takes time to search for the files, you need delete the files that you don't need, or need to make disk defragmenter now.
- Capture card problem.
- Computer hardware system is too outdated.

Appendix 2.4.5 Why I can't play back?

Windows media player has been damaged, or decoder hasn't been installed properly. It's suggested to reinstall the relative software system.

Computer problem, recorded files have been damaged. It's suggested to fix these files using SuperAVIFix program.

Appendix 2.4.6 Why do I see some gray blocks on time progress bar area when play back?

Possible causes:

- User has deleted these recorded files.
- SuperDVR has deleted recorded file when recycle option being is chosen.
- Recorded files can't be opened because the recording is on.

Appendix 2.4.7 Why could I see some old record sections that didn't be covered when playing back?

Possible causes:

- You have ever selected disk partitions different from the current.
- These recorded files are being played back when covering it.
- Database of recorded log was damaged.
- You have ever installed SuperDVR on different directories.

Appendix 2.4.8 Precautions on changing system time

- The superDVR system provides the retrieving mechanism for video files, which must take the system time as a retrieving reference. To change the computer time after installation will create a high risk of wrong time reference.
- Before superDVR is used, it must be confirmed whether the current computer time is correct.
- Deactivate computer auto time updating function of system.
- Make sure the motherboard of the computer is in normal state.

Appendix 2.4.9 If system time must be changed, please do following preparations first

1. If new time is later than current computer time (for example, change 2006/01/01 0 : 0 : 0 (current system time) to 2007/01/01 0 : 0 : 0 (target time)), the change can be made directly.
2. If new time is before the current computer time (for example, change 2007/01/01 0 : 0 : 0 (current system time) to 2006/01/01 0 : 0 : 0 (target time)), first stop the video recording, backup all video data. Turn off superDVR, change computer time and re-start SuperDVR.

Appendix 2.4.10 How to use REPAIRDB to repair SuperDVR database?

Enter the installation directory of SuperDVR.

C:\ProgramFiles\SuperDVR\SuperDVR, open the REPAIRDB.EXE file. The user ID is 'SYSTEM', and no password is needed to be entered. After entering, please select database to repair.

Appendix 2.4.11 How to set power options of Microsoft VISTA system?

After install VISTA system, you should enter the Start menu to choose 'Control Panel'. Select 'System and Maintenance' link. And select 'Power' option in 'System and Maintenance' window. Lastly, Select the 'High Performance Change Plan Setting' option.

NOTICE

The digital video capture cards support Intel CPU on VISTA edition.

Appendix3 Quick Start for Using

Appendix 3.1 Requirements

Before installing the PCI card, check PC requirements:

- P III 800 MHZ
- 256 MB RAM
- Windows 2000 (SP4 min) or Win XP (SP2 min)
- NVIDIA Video Card with 32 MB min or similar
- DirectX 9.0 minimum
- 80 GB HDD

NOTICE

TD3104 and TD3316 support Windows 2000(SP4 min) or Windows XP(SP2 min).

Appendix 3.2 Installation Instruction

STEP1 : Insert the PCI card (But do not connect the Camera yet).

STEP2 : Launch windows.

STEP3 : Windows will come up with Hardware wizard. Just click '**Cancel**'.

STEP4 : Put the installation CD in and open up SuperDVR folder run the 'Setup' file.

STEP5 : Follow the steps and in Windows XP, it will come up with a message say this program has not passed windows logo testing, just 'Continued anyway'.

STEP6 : Reboot computer once it is completed.

For complete instructions, refer to user manual 1-7 chapters.

Once Boot up, On Desktop there will be 'SuperDVR' icon. opened well.

If this program recognizes the PCI card, program will open just fine. Please log in first to the program.

Once your program is opened, now connect the Camera.

Appendix 3.3 Troubleshooting

Appendix3.3.1 When opening the SuperDVR program, it says ' Can't find card '.

Reboot one more time. If still same problem, click 'Start - Program - SuperDVR - Install' and then Uninstall the program. Reboot the computer. After reboot, go back to 'Start - Program - SuperDVR - Install'. Now click on 'Install' to reinstall driver. Then Reboot.

If for some reason still ' Can't find card ', uninstall driver again. Shut down the computer. Move PCI Card to another slot. Reboot it. And click 'Cancel' when windows detect it.

Then reinstall driver by going to 'Start - Program - SuperDVR - Install'.

For other setting in the program, please read user manual 1-7 chapters.

Appendix 3.3.2 How to setup the web client to monitor from Internet?

1. On Main Computer where DVR Card Installed

STEP1 : Make sure the computer connected to Internet. DSL or Cable Modem preferably.

STEP2 : Find out your IP address. You can go to this link to find the IP address <http://lawrencegoetz.com/programs/ipinfo/> .

STEP3 : Open up the SuperDVR program and go to basic configuration. Check and ENABLE Web Camera Service and Remote Play Back Service.

STEP4 : Make Note on Data Port, Command Port and RPB port.

NOTICE

If you are connecting to internet using router, you need to configure the setup of the router and do the port forwarding. Ports that need to be forwarded: 80, 1159, 1259 and 13551. Check your router manual on how to setup that.

2. On Remote Client Computer

STEP1 : Minimum Requirement for the client computer:

- P III 800 MHZ
- 256 MB RAM
- Windows 2000 (SP4 min) or Win XP (SP2 min)
- NVIDIA Video Card with 32 MB min or similar
- DirectX 9.0 minimum
- 80 GB HDD

STEP2 : Open up Internet Explorer.

If you are running XP with SP2 follow the steps then: on Internet explorer, click 'Tools - Internet Option - Security - Custom Level', and enable 'Download unsigned ActiveX controls'.

STEP3 : In the IE textbox of the Internet explorer, input the IP address of

Main Computer.

STEP4 : Select '**Live Surveillance**' and click '**OK**' on displayed page.

This will download the webcam program. And then you can download Remote Playback as well.

STEP5 : On Desktop now you should see 'WebCam' and 'Remote Playback' icon.

STEP6 : Open up webcam, click '**Key**' symbol icon.

Username: system (Password blank unless you setup a password within the main computer).

Server: this the IP address of the Main Computer.

Data port: 1159 and Command port: 1259.

STEP7 : Click '**OK**'. Now you should be able to view the live video from main computer.

STEP8 : To play back the Video that has been recorded in Main Computer, Select '**Remote Playback**' on displayed page.

STEP9 : Click on '**Config**'.

Remote server: the IP address of main computer.

IP port: 13551.

STEP10 : Then click '**OK**'.

STEP11 : Click '**Login**'. Now you should be able to play back the recorded video from Main Computer.

For more details information, please read user manual 1-7 chapters.

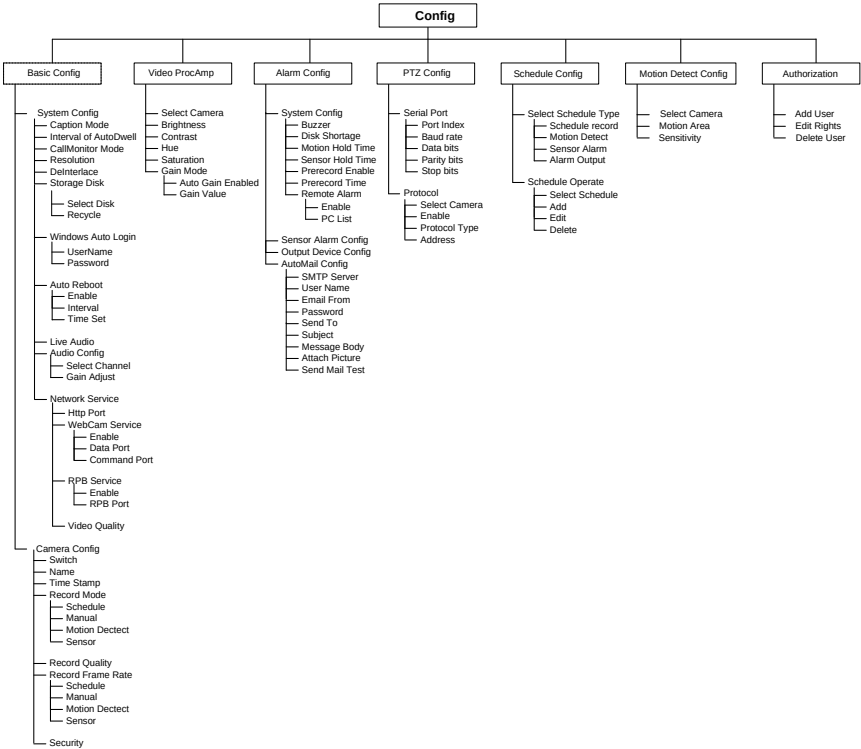
Appendix4 Function Tree

Appendix 4.1 SuperDVR Function Tree



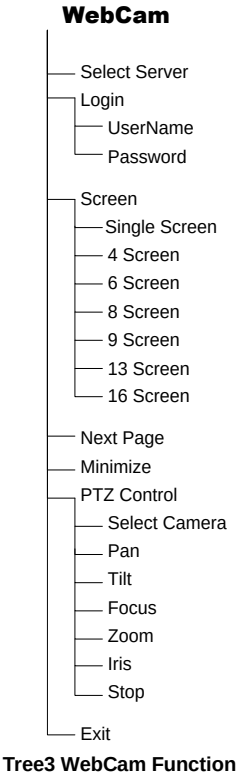
Tree1 SuperDVR Function

Appendix 4.2 System Configuration Tree

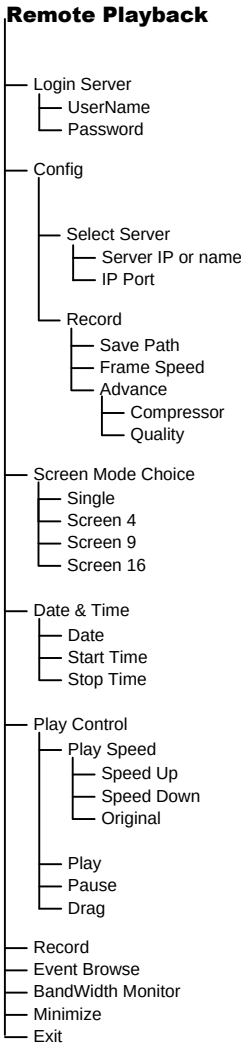


Tree2 System Configuration

Appendix 4.3 WebCam Function Tree



Appendix 4.4 Remote Playback Function Tree



Tree4 Remote Playback Function